COX 120-2163 February 44
Myron C. Huls,
1821 Broadview Ave.,
Highland Park, Ill. 065

Peepsight up against the Law!

HOW WOULD YOU FELLOWS LIKE TO COME DOWN TO OUR CLUB RANGE FOR A PISTOL MATCH?
SURE—BUT IT SOUNDS LIKE MURDER TO ME. OUR BOYS ARE THE COUNTY CHAMPS
AT CHECKERS?

SWELL LAYOUT HERE— BUT WAIT TILL YOU SEE OUR NEW SET-UP AT THE STATION HOUSE
NO BARS ON THAT, CHIEF. SAY— I SEE YOUR MEN ALL USE PETERS POLICE MATCH SAME AS WE DO

YOU HAVE NO IDEA HOW GLAD I AM THE MATCH ENDED AS A TIE
THAT'S OKAY WITH ME. BUT LET'S LINE UP A RETURN MATCH ON OUR RANGE— AND MAKE THIS A REGULAR AFFAIR

PETERS Rifle and Pistol Ammunition

PETERS CARTRIDGE DIVISION, *Remington Arms Co., Inc., Bridgeport, Conn.*

*"Police Match" is a trade-mark of Peters Cartridge Division

FLYERS' CHOICE Ray-Ban SUNGLASSES

• Joel R. Baker, Jr., Curtiss-Wright Test Pilot, shown here waiting for the fueling of a Curtiss Commando, has this to say about flying, and about sunglasses:

"I've hung up over 2,000 hours, instructing army cadets and testing pursuit and cargo planes. The ships that get my O.K. go on to the front They've got to be *right.* And on my job, *my eyes* have to be *right.* I've found the same thing that the boys who fight in American planes all seem to know—up where only a man's best is barely good enough, Bausch & Lomb Ray-Ban lenses set eyes right; they give most comfortable glare protection and sharpest vision."

Many army and navy fliers, as well as test pilots like Joel Baker, find Ray-Bans unsurpassed for safe, scientific glare protection.

After Victory you, too, will again be able to get genuine Ray-Bans—either plain or ground to your prescription—in the distinctive Ray-Ban frames.

**All Ray-Ban Sunglass production is allocated to military use.*

BAUSCH & LOMB
OPTICAL CO. ROCHESTER, N. Y.
ESTABLISHED 1853

AN AMERICAN SCIENTIFIC INSTITUTION PRODUCING OPTICAL GLASS AND INSTRUMENTS FOR MILITARY USE, EDUCATION, RESEARCH, INDUSTRY AND EYESIGHT CORRECTION

To be read before the 4TH War Loan Drive

ONE DAY SOON, someone will come to see you.*

He, or she, will ask you to lend your Government at least an extra $100 this month. To put at least an extra $100, over your regular Bond buying, into War Bonds for the 4th War Loan.

Don't—*don't* say you can't afford it even though you may wonder how you're going to get that money.

If you think that getting the money is going to be hard, why, before the doorbell rings, look at the faces of these dead countrymen of yours. Read their stories.

Then think how hard it would be to have to tell Americans like these that *other* Americans can't afford to lend *at least* an extra $100!

**If, by chance, you should be missed—don't think your money isn't needed! Go and buy those extra Bonds, yourself!*

Lieutenant William G. Farrow was one of Jimmie Doolittle's Tokio raiders. His plane made a forced landing in Japanese territory and Lieutenant Farrow is believed to be one of the American aviators who was executed by the Japanese some time later.

Rear Admiral Daniel J. Callaghan commanded the U.S.S. San Francisco. Driving his ship straight through the midst of a greatly superior Jap fleet, he directed operations from the deck of his flagship until blown to pieces by a Jap shell.

Lieutenant George H. Cannon, U.S.M.C., was mortally wounded during the Jap bombardment of Midway, Dec. 7th. He refused to be taken to a hospital till all his men had been evacuated, and as a result, he died of loss of blood.

Lieutenant Alexander Nininger fought his way, hand-to-hand, into the Jap lines on Bataan. Wounded 3 times, he continued to advance until he was killed. When his body was found, a Jap officer and two Jap soldiers lay dead around him.

Seaman first class James R. Ward was stationed in a gun turret in the Oklahoma on Dec. 7th. When the order was given to abandon ship, he stayed in his turret holding a flashlight so that the rest of the crew could see to escape. He was drowned.

Captain Albert H. Rooks was commanding officer of the U.S.S. Houston. Engaging an overwhelming Jap force, the Houston smashed into them and went down, guns blazing. Rooks went down with his ship.

Keep backing the attack!

The Treasury Department acknowledges with appreciation the publication of this advertisement by

THE NATIONAL RIFLE ASSOCIATION OF AMERICA

This advertisement prepared under the auspices of the War Advertising Council and the U. S. Treasury Department

"MY RIFLE"

The Creed of a United States Marine

By Major General William H. Rupertus, U.S.M.C.

THIS is my rifle. There are many like it, but this one is mine. My rifle is my best friend. It is my life. I must master it as I must master my life. My rifle, without me is useless. Without my rifle, I am useless. I must fire my rifle true. I must shoot straighter than my enemy who is trying to kill me. I must shoot him before he shoots me. I will . . . My rifle and myself know that what counts in this war is not the rounds we fire, the noise of our burst, nor the smoke we make. We know that it is the hits that count. We will hit . . . My rifle is human, even as I, because it is my life. Thus, I will learn it as a brother. I will learn its weaknesses, its strength, its parts, its accessories, its sights, and its barrel. I will ever guard it against the ravages of weather and damage as I will ever guard my legs, my arms, my eyes, and my heart against damage. I will keep my rifle clean and ready, even as I am clean and ready. We will become part of each other. We will . . . Before God I swear this creed. My rifle and myself are the defenders of my country. We are the masters of our enemy. We are the saviors of my life. So be it, until victory is America's and there is no enemy, but Peace!

O.F. Mossberg & SONS, INC.
NEW HAVEN 5, CONN.

Today 100% in war work. In normal times, manufacturers of .22 cal. RIFLES, SHOTGUNS, TELESCOPE SIGHTS, TARGO GUNS & EQUIPMENT

READ SHOOTERS . . . Best Sellers!

POPULAR BOOKS ON SHOOTING

Automatic Pistol Marksmanship—Reichenbach	$1.50
Big Game Hunting and Marksmanship—Lee	2.00
Book of the Springfield—Crossman	4.00
Mastering the Pistol—Fisher	2.50
Mastering the Rifle—Fisher	2.50
Military & Sporting Rifle Shooting—Crossman	4.50
Modern Shotguns and Loads—Askins	4.00
Sixguns Cartridges & Loads—Keith	1.50
The Ducks, Geese and Swans of North America	4.50
The Hunting Rifle—Whelen	4.75
The Woodchuck Hunter—Estey	1.50

ON FIREARMS

Advanced Gunsmithing—Vickery	4.00
Catalog of U. S. Martials Short Arms—Gluckman	1.95
Firearms Blueing & Browning—Angier	2.50
English Pistols and Revolvers—George	4.00
Gun Care & Repair—Chapel	3.75
Gun Collecting—Chapel	2.50
Handloaders Manual—Naramore	3.50
History of the Colt Revolver—Haven-Belden	10.00
Rifle in America—Sharp	10.00
Textbook of Firearms Investigation, Identification & Evidence—Hatcher	7.50

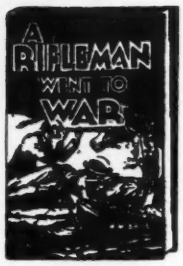
ON TRAINING

A Comprehensive Small Arms Manual—Haven	1.50
Bombs & Bombing—Ley	1.25
Civil Air Defense—Prentiss	2.75
Civilian Defense of the U. S.—Dupuy-Carter	2.50
Essentials of Infantry Training	1.50
Infantry in Battle	3.00
Map & Aerial Photo Reading	1.00
Men at War—Hemingway	3.00
New Infantry Drill Regulations	.50
Personal Finance & Management for the Army Officer—Col. Hutchinson	1.50
State Defense Force Manual	1.00
The Officers Guide	2.50

$4.50 POSTPAID

MODERN GUNSMITHING

This splendid textbook by the late Clyde Baker is tops on our list of best-sellers. A favorite of the amateur as well as the professional gunsmith, this book covers the interesting subject in a practical "know how" way. Instructions for major and minor gun alterations are within the 527 pages of this limited edition.



$3.50 POSTPAID

A RIFLEMAN WENT TO WAR

Here is a human interest true yarn about World War I as found by a Yankee Rifleman. This is not a technical or soldier handbook, but it is a highly interesting story written by a well known sniper-rifleman. It is brought to you in another limited edition.

$7.50 POSTPAID

COMPLETE GUIDE TO HANDLOADING

All of the latest developments in tools and technique along with a vast fund of other helpful information will be found in this up-to-date book on handloading by Phil Sharpe. A fascinating and complete guide for handloaders, a textbook as practical as a hammer in your tool chest. This is complete in one well illustrated volume.

$5.00 POSTPAID

AUTOMATIC ARMS . . .

This is the new book by Johnson and Haven about which Colonel Calvin Goddard in ARMY ORDNANCE wrote:

"A volume devoted solely to automatic and semi-automatic weapons—one so carefully prepared, pleasingly written, and comprehensive in its coverage that it will long remain a landmark in literature."

Over 300 pages—150 illustrations.

All books sent postpaid with return privilege to members

BINDING THE RIFLEMAN?

Here's an opportunity to have your 1943 copies of THE AMERICAN RIFLEMAN bound in permanent book form. *Up to January 31, 1944* we will accept your 1943 copies if sent to us *prepaid*, and bind them together in one sturdy volume with heavy jet-black covers, stamped in gilt, for only **$2.50**

(Your bound volume will be returned postpaid about February 28)

If you don't have a full year of the RIFLEMAN, please do not ask us for any missing issues as we have none. We do, however, have a few 1943 bound volumes. These are available while the supply lasts at only **$4.00** POSTPAID

HERE'S A LOOSE LEAF TYPE of BINDER that will hold a full year's copies of THE AMERICAN RIFLEMAN. It is made of heavy crush grain fabrikoid and richly embossed with bronzed title panels.

$2.25 POSTPAID

NATIONAL RIFLE ASSOCIATION

SCOTT CIRCLE
WASHINGTON 6, D. C.

The Official Journal of The National Rifle Association of America

AMERICAN RIFLEMAN

C. B. LISTER, *Managing Editor* — W. F. SHADEL, *Editor*
F. C. NESS, *Technical Editor* — C. M. PALMER, JR., *Associate Editor*
E. B. MANN, *Associate Editor* — J. T. BERRYMAN, *Art Director*
L. Q. BRADLEY, *Circulation*

U. S. Army Photo

THE COVER: General George C. Marshall, Chief of Staff of the United States Army, and subject of this fine kodachrome portrait, is the man in the spotlight in this first month of this crucial year of this war.

In his report to the Secretary of War, General Marshall said, "Our progress may seem slow but it is steady and determined. The combined power of the United Nations is rapidly increasing. There can be but one result and every resource we possess is being employed to hasten the hour of victory without undue sacrifice of lives."

This report paints a much brighter picture than could have been drawn from facts a year ago. Much of the credit for that change goes to General Marshall himself for his masterful guidance of the incredible task of organizing, training, equipping and transporting our huge expeditionary forces. General Marshall is that rarity of rarities—a great soldier with qualities of statesmanship. His value as an ambassador for the Army and as an interpreter of Army affairs to the governing bodies in Washington cannot be overestimated. He holds the high esteem and unqualified respect of the Army itself and of its Allies, plus the confidence and trust of our legislative leaders.

General Marshall is a strong friend of NRA and a firm believer in the principles on which the work of the Association is founded. In one of his brilliant impromptu speeches a few years ago, General Marshall heartily commended the Association's program and stressed the value of individual marksmanship in modern warfare.

"We hear a great deal," the General said, in effect, "of the importance of tanks and planes, of secret weapons and armor and panzer divisions. These have their place. But we do not hear enough about the man with the rifle who is the foundation of all successful armies!"

Regardless of the field of command in which General Marshall may act, or what duties he may assume, we at home and you in our fighting forces can be sure of the continued sane and solid quality of this man's leadership. He is a straight shooter in both senses of the phrase.

VOLUME 92 — NUMBER 1

JANUARY

Debunking the Debunkers 6
By E. B. Mann

Happy Hunting Ground 10
By Al Ljutic

The End Is Not Yet 13
An Editorial

Wildlife Tragedies 14
By Leo A. Luttringer, Jr.

The Perennial Krag 17
By Merton Mealy

Reloading .30-'06 For Club Use 18
By Miami Rifle Club, Inc.

Short Guns For Speed 21
By Major Charles Askins

That Man Peterson 22
By Allyn Tedmon

This Pistol Packin' War 25
By W. H. B. Smith

Lead Bullets in a Zipper 27
By H. K. Davis

Simplified Small Arms Ballistics 29
By The Old Coach

Powder Smoke 36

Dope Bag 40

JUDGE HILLARD COMSTOCK ..... *President*
★ LT. COMMANDER THURMAN RANDLE ..... *Vice-President*
★ MAJOR GENERAL MILTON A. RECKORD ..... *Executive Vice-President*
C. B. LISTER ..... *Secretary-Treasurer*
L. Q. BRADLEY ..... *Assistant Secretary*

J. R. LENT ..... *Operations*
C. R. ROGERS ..... *Training*
A. H. BARR ..... *Technical Ass't*
E. M. CHASE ..... *Cashier*
★ *In the Service*
★ T. W. CHILD
★ J. FAUNTLEROY

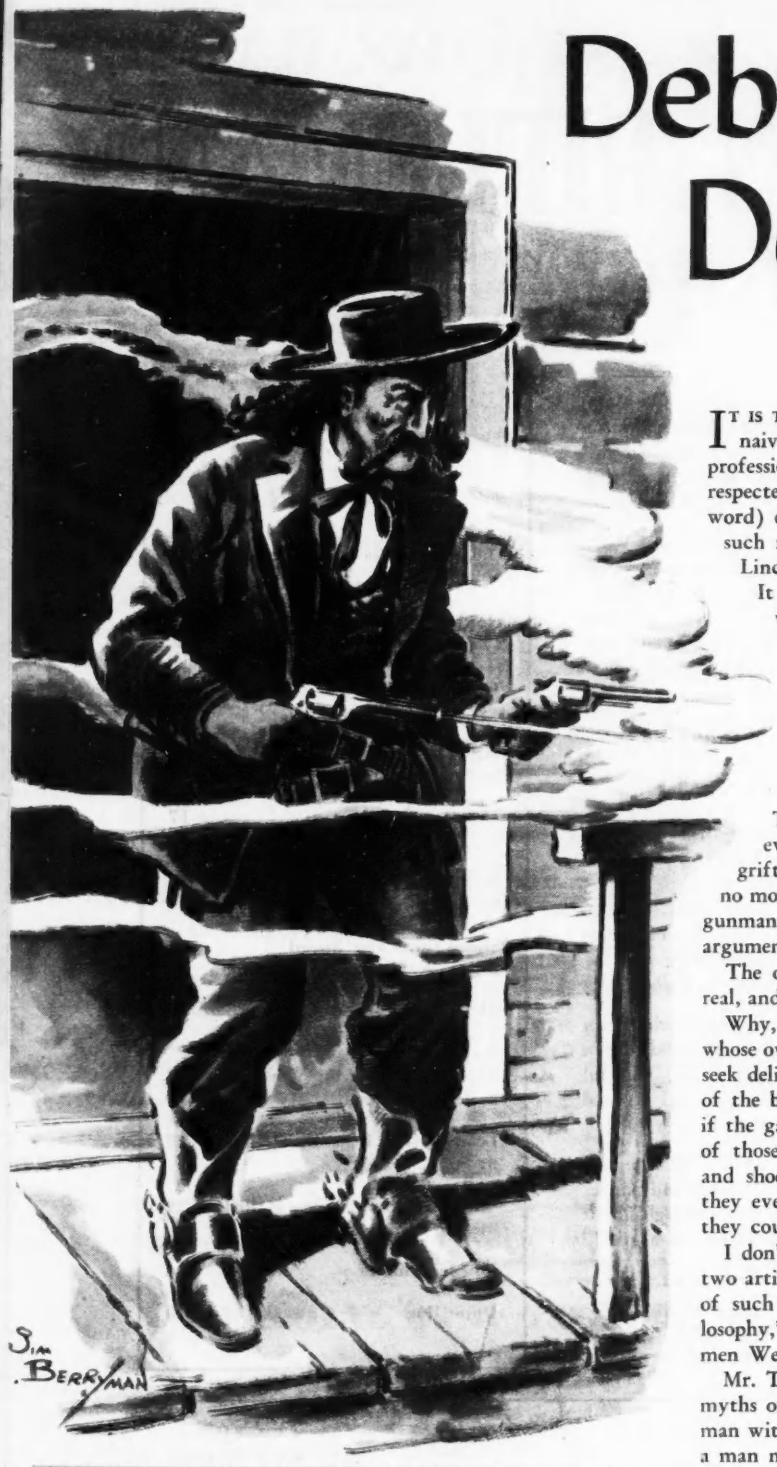
★ J. A. HARPER
★ J. K. SCOFIELD
★ F. L. WYMAN
★ F. A. MOULTON
★ R. J. STAN
★ F. C. DANIEL

Published monthly by The National Rifle Association of America, 1600 Rhode Island Avenue, Washington, D. C. Domestic rates, including all of North, South and Central America, $3.00 a year; $5.00 for two years; elsewhere, $3.60 a year; $6.50 for two years. Entered as second-class matter, April 1, 1908, at the Post Office at Washington, D. C., under Act of March 3, 1879. *Copyright, 1944, by The National Rifle Association of America.*

V92 1 JAN 44 XUM

Debunking the Debunkers

By E. B. MANN



"There were no second prizes, no re-entry rules for those old-timers. A man shot straight and fast—or else! Alibis had no weight; the pall-bearers carried that. It was the day of the quick and the dead. The quick lived; the others went to Boothill."

IT IS THE FASHION to doubt. "If you believe it you're naive," might well be the slogan of our time, and professional cynics have exploited this fad of upsetting respected applecarts by "debunking" (at so much per word) everything from Santa Claus to spinach, including such national figures as George Washington, Abraham Lincoln—and the old western gunman.

It is a healthy trend, within proper limits. Much worthwhile fact is hidden or distorted by lies, and any delving that reveals the truth is good. But honest debunking leaves the truth untouched. Too many "debunkers" forget that! They forget that not all history (or legend either) is bunk. Their object is to shock; and if the truth is not sufficiently shocking, they doubt that too! Or, worse still, they alter it.

To doubt everything is just as naive as to believe everything. And the man today who believes the grifter who offers to sell him the Brooklyn Bridge is no more naive than the man who says, "The old western gunman is a myth!" and tries to prove it by the specious argument, "I can't do it, therefore it can't be done!"

The old western gunman is no myth. His skill was real, and proof is available to any who will seek it.

Why, then, do men who should know better, even men whose own skill with guns has earned them national fame, seek deliberately to discredit the men who are the heroes of the boys and girls whose interest must be maintained if the game is to live? Why label "impossible" the skill of those old-time gunners—when there are men living and shooting today who can equal or surpass anything they ever did or anything any sane person ever claimed they could do?

I don't know why they do it—but they do. Witness two articles, taken more or less at random from the bulk of such material published in recent years: "Gun Philosophy," by Chauncey Thomas, and "Wild West Gunmen Were Not So Hot!" by Charles Askins, Jr.

Mr. Thomas says, "One of the most widely-circulated myths of the frontier is that of the 'two-gun man'; the man with two guns which he used simultaneously. Such a man never existed."

Mr. Thomas pins the lie also on "fanning"—that much-discussed and frequently-misunderstood business of holding a single-action revolver in one hand and firing it rapidly by knocking the hammer back with quick brushing blows of the palm of the other hand. Mr. Thomas says, "Fanning is a myth. I've written this subject up thoroughly and posted a certified check of $1,000 reward for anyone who could demonstrate it. . . . In the same

class come shooting from the hip and shooting by instinct. . . . All ways of shooting either rifle or six-gun other than by aiming through the sights are pure bunk."

Beware the man who makes flat, categorical statements! A man once looked at a giraffe and said, "I must be crazy! There ain't no such animal!" He may have been crazy, but there are giraffes. And the two-gun man did exist and does exist today, Mr. Thomas to the contrary notwithstanding.

James Butler "Wild Bill" Hickok was a two-gun man. So was Bill Longley, John Ringo, John Wesley Hardin, Billy the Kid, Sam Bass, Dallas Stoudenmire—to name but a few. So was Wyatt Earp.

Earp was one of the great gun-fighting peace officers of the Old West. He served in many of the wildest and toughest of the rail-end, trail-end towns of Kansas, and in Tombstone in its heyday. He fought with and against the best (and the worst) of that gun-toting era and was one of the few of his kind who lived to die of old age in a less dangerous decade. He knew the great gunmen of that day, good and bad; and he lived so recently that his testimony can be taken practically verbatim.

Earp says, "I wore my pistols in open holsters, one on each hip. . . . They wore two guns, most of the six-gun toters did; and when the time came for action they went after them with both hands."

Perhaps, in fairness to Mr. Thomas, I should quote Earp a bit further. Perhaps Mr. Thomas pinned his statement on the one word, "simultaneously." If so, Earp says, "They didn't fire them simultaneously. Some men could shoot equally well with either hand and in a gun-play might alternate their fire. Others exhausted the loads from one gun, then shifted guns."

Two guns can, however, be fired simultaneously, to hit the same or even widely separated targets. That is a subject we'll take up a little later. . . . But the old-timers did wear two guns; and they did use both guns at the same time. Maybe they didn't pull both triggers at the same split second (and maybe they did); but firing two guns alternately in rapid succession is being a "two-gun man" for my money! Is a man necessarily one-legged because he walks one step at a time?

What about "fanning"? Mr. Thomas says it can't be done. Earp says, "A skillful gun-fanner could fire five shots from a .45 so rapidly that the individual reports were indistinguishable."

True, Earp goes on to say that fanning wasn't generally used for serious business. It was a trick. "Ad" Topperwein and many others can hit targets by sighting through mirrors; yet I don't suppose that Topperwein, or anyone else in his right mind, would choose to use mirrors for sighting against a shooting-back target. But is that an adequate reason for saying that such shooting is impossible—or that "fanning" is a myth?

"Fanning" is no myth. Many men now living can "fan" a gun, and throw lead with reasonable accuracy by that method. Not because he is the only man who can do it (he isn't), but because his records are applicable to more points in this discussion than are those of any other shooter—take Ed McGivern. Ed McGivern is certainly one of the (if not *the*) leading exponent of fast and fancy handgun shooting; a man who has devoted most of his life to careful experiments to determine exactly how fast and how accurately he (and other men) could fire a handgun. "Ed McGivern's Book On Fast and Fancy Revolver Shooting and Police Training" is a textbook and "Bible" for handgunners. There can be no question about the authenticity of McGivern's feats. His times are checked by highly accurate electrical timing devices and his accuracy has been proved before thousands of unimpeachable witnesses.

The two-gun man who "never existed"? Ed McGivern is a two-gun man. McGivern has demonstrated thousands of times his ability to draw and fire two guns fast and accurately. One of his "stunts" is to draw and fire two guns, five shots out of each gun, all ten shots scoring vital hits on a man-target at fifteen to twenty feet; time, two seconds. He varies this on occasion by using two targets ten feet or more apart. This is more difficult! Time for ten shots, all hits, including the two-gun draw—three seconds. Not counting the draw, McGivern fired ten shots, two guns, in one and two-fifths seconds, scoring ten hits in a six-by-eleven-inch group on the chest of a man-target at eighteen feet. McGivern's exhibitions also included firing two guns on aerial targets. He scored doubles regularly, even on targets thrown at wide angles. . . . McGivern can not only do these things himself; he has taught, and is teaching others to do likewise.

"Fanning is a myth"? Ed McGivern has repeatedly fanned five shots out of a Colt Single Action revolver—the famed "Peacemaker" of frontier days—in times ranging from one second to one and one-half seconds for the five shots, all five shots grouped in a space coverable by a man's hand (often by a playing card) at ten- to fifteen-foot ranges! McGivern says that fanning is the fastest known way of firing a single-action revolver. "Fanning is not a myth; a very successful method which gives good results, properly performed and controlled. *Fanning would be practical for one man against several.*"

(Too bad Mr. Thomas's thousand-dollar check wasn't posted where Mr. McGivern could shoot for it!)

But what about "point-shooting"—shooting "from the hip"—without "aiming through the sights"? Mr. Thomas says, "It's bunk!" Wyatt Earp names "Wild Bill" Hickok as just about the deadliest man he knew with a six-gun

and says, "Wild Bill held his gun as almost every man skilled in such matters preferred to hold one when in action, with a half-bent elbow that brought the gun slightly in front of his body at about or slightly above the level of the waist."

Mr. Hickok couldn't very well have "sighted" the gun, in that position, yet he killed many men. How many is a question that will probably never be answered, but you can take my word for this—he didn't miss many that he shot at! And he was a point-shooter!

McGivern can point-shoot five shots, all hits covered by a playing card at fifteen to twenty feet, in less than a second! Several of his five-shot groups, hip shooting, can be covered by a dime! (Impossible? If you think it's impossible, let McGivern point-shoot a gunful at your watch! But when you miss your trains, later, don't say I didn't warn you!)

But let's leave Mr. Thomas and his "Gun Philosophy" for the moment and look instead at that other example of expert "debunking," "Wild West Gunmen Were Not So Hot!" by that fine pistol man, holder of several championships, Charles Askins, Jr.

The principal fault in Mr. Askins' article lies in its title; for what Mr. Askins actually does is to refute, not the actual skill of actual old-timers, but the tall tales that have been told about them!

Now, I have written my share of western stories; but I would never quarrel with Mr. Askins had he written his piece under the title, "Wild West *Writers* Are Not So Hot!"—for I know what crimes have been committed in the guise of "western" fiction. But what has that to do with the actual deeds of men who actually existed?

Of course Mr. Askins does, infrequently, refer to actual old-timers. For example, his reference to Wild Bill Hickok's feat of shooting at the "o" (or "o's") in a certain sign. Mr. Askins, with much rather ponderous amusement, quotes this badly shopworn tale in the words of a Mr. Alsike, who infers that the episode occurred in Abilene, Kansas, and states positively that the sign advertised a blacksmith by the name of Jim Cooley, that Hickok fired both guns simultaneously, so fast that the separate shots were indistinguishable, ending the performance split seconds later with six holes in each of the twin "o's" in the Cooley name! The distance, Mr. Askins relates, was later established as "187 long steps."

The best that can be said for that is—it is not good reporting! Oh yes, the thing did happen. It happened in the summer of 1871. Plenty of reputable witnesses attest it. But—it didn't happen in Abilene, Kansas; it happened on the Market Square in Kansas City, Missouri. Hickok didn't fire both guns simultaneously; he emptied one, at about Timed Fire cadence, then changed guns and emptied the other. He didn't fire twelve shots; he fired ten. There weren't two "o's" in the sign; there was one. And the distance was not "187 long steps"; it was just under eighty-five yards.

It was still good shooting. But what is so incredible about it? Signs then, as now, were made to be read at a distance. Is it unreasonable to suppose that a sign made to be read across Kansas City's Market Square may have carried thirty-inch letters? Give that "o" a thirty-inch diameter, strip the story of the obvious hokum that has grown up around it, and dozens of men today (including Mr. Askins himself) could equal Hickok's feat, or better it. Why say Hickok couldn't have done it?

Mr. Askins says Hickok couldn't have done it because the guns and ammunition of that day wouldn't do it. Mr. Askins tells of two guns he tested, guns of that era, that threw groups 7.3 inches to 8.7 inches wide at fifty yards. Frank Wyman, writing for THE AMERICAN RIFLEMAN of September, 1936, records his own test firing of a gun of that era (an ancient Remington, Model 1858, rescued from a pawn shop) which threw one-inch groups at twenty-five yards, using what Mr. Wyman himself described as "a misfit load."

Maybe Mr. Askins was unlucky in his choice of revolvers. But even *his* groups, carried out to eighty-five yards, would nestle comfortably inside that "o" with a thirty-inch diameter. Even those guns would make dead men out of live ones at fifty (or even a hundred) yards. Which was the ultimate object of the men Mr. Askins is "debunking."

Mr. Askins says the tales of old-time accuracy are lies for still another reason. He says that the guns of that day which he has examined are not properly sighted and that "the old gun-fighters had never been to the Camp Perry School of Marksmanship, so they did not know anything about sighting-in a six-gun"!

Of course, under the circumstances existing, I suspect Mr. Askins of sarcasm. Nevertheless, I'm sure that the NRA and the Army are grateful for that tribute to the Camp Perry School. However, there is also a school called "the school of experience"—a school in which those old-timers made passing marks in "triggernometry" or else they died! They didn't know as much as we know today about trajectories and ballistics and high velocities and internal pressures; but they had hammers, and they had files, and they had the sense to use them! I know, for I have seen the marks of those tools on guns of that era that I have examined! They weren't so dumb, those old-timers, that they couldn't re-set a simple iron sight. They could, and they did. At least some of them did. Perhaps some of them didn't. Some of them were strictly point-shooters and, to them, the sights may not have mattered.

Mr. Askins goes to considerable pains to refute a story which he says is credited to John Wesley Hardin; a story to the effect that Hardin "used to draw his twin .41's and, fanning both guns simultaneously, ignite a dozen matches with as many bullets." (Leaving the business of match-lighting out of it entirely, it takes two hands to "fan" one gun. Hence, as Mr. Askins points out, this story is obviously impossible.)

Far be it from me to say that that story has not been told; no doubt it has. But—and this is the point I hope to drive home—that story is not a part of any claim seriously made for the record of Wes Hardin, or any other gunman.

It is not even a good "tall tale." It is a stupid lie; stupid, because no one with even the faintest idea of what "fanning" is would tell it. As such, Mr. Askins does well to refute it. But refuting it does nothing at all to the tall figure of John Wesley Hardin as a gunman! Hardin's fame is sufficiently well grounded in fact to need no such lies to enlarge it.

Mr. Askins scoffs, too, at such tales as: rescuing a comrade from hanging by shooting the rope in two; shooting guns out of men's hands; shooting the spots out of playing cards tossed in the air; shooting from the saddle, at a gallop, with two guns, hitting an endless succession of fence posts on both sides of the shooter. Mr. Askins says he built a dummy "villain" who was hanged, shot at, and otherwise maltreated in the course of lengthy experiments to prove or disprove these legends, winding up with the conclusion that since he can't do these things, therefore they can't be done.

Mr. Askins says he couldn't hit the rope in his attempt to rescue his "villain" from hanging, because it was a windy day and the rope was swinging! I ask—why didn't Mr. Askins shoot at the rope where it crossed the limb; where it was motionless?

But let's not quibble; let's suppose, for the sake of argument, that the rope wasn't visible where it crossed the limb and that Mr. Askins had to shoot at a section of the rope that was in movement. "Ad" Topperwein, "Fitz" FitzGerald, and plenty of other exhibition shooters hit aerial targets with pistol bullets; targets smaller than the diameter of any rope likely to be used for a hanging. Ed McGivern could hit dimes tossed in the air; hit them either broadside or edgewise, as requested. Hitting a rope is not impossible!

But, even if it were impossible—cutting a rope with bullets to save a man from hanging is not a part of the history, or even of the legend, of any actual gunman, to my knowledge. It is a figment of fiction.

Mr. Askins tells quite humorously how, when he tried shooting a gun out of the hand of his dummy, the gun was smashed and the dummy was punctured by flying pieces. . . . Well? Shooting guns out of men's hands is not a part of any skill ever claimed for any real gunman. Those old boys, when they drew, shot to kill!

(Just the same, guns have been shot out of men's hands, leaving the man unscathed—or nearly so. I saw one such gun after it happened. It wasn't smashed into shrapnel, either. It wasn't hit by intention, however; it was merely in the line of flight of a bullet intended for a larger and a softer target.)

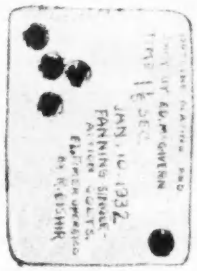
As for shooting the pips out of a playing card tossed in the air—nobody in his right mind ever said seriously that anybody, either in fact or in fiction, could do it! Nobody who ever saw such a card spin and flutter and dart and dive *would* say it! It is not a part of any gunman's legend. Like the story of fanning two guns, if it is told at all, it is told by fools, for fools' consumption.

(But Ed McGivern can *split* a card tossed in the air. It's a much stiffer card, like the cardboard coasters used under glasses; and it is expertly thrown. But it's a thin target!)

Mr. Askins tried shooting off a running horse. This story of two-handed shooting at fence posts off the back of a running horse is, I believe, the only story in this sequence of tall tales that is seriously accredited to any old-time gunman. Billy the Kid is said to have done it.

Well, targets can be hit from a running horse. United States Cavalrymen do it, regularly, in firing the Mounted Pistol Courses. True, they shoot at man-size targets which are bigger than fence posts; but Billy the Kid was probably a better gunman than the average cavalryman. . . . And suppose the story does exaggerate the Kid's skill: would Mr. Askins care to meet Billy the Kid in a shoot-out? I wouldn't! . . . And why say that Billy the Kid never existed, that his skill with guns is a myth, merely because a lot of tall tales have grown up around him?

Ed McGivern, dean of fast and fancy revolver shooting, shows how to "fan" a Frontier Model Colt Single Action. Impossible? Take a look at the playing-card-size group below, fired by McGivern by this method.



Of course, that mention of meeting Billy the Kid in a shoot-out brings up the question of *speed;* and that is the point on which the "debunkers" pounce! We writers, seeking the apt phrase, tell how our hero, reaching for his gun, rips it from the holster so fast that his hands blur with speed! . . . And the "debunkers" chortle in the belief that they've caught us with our rhetorical pants down.

Mr. Askins went further than do most "debunkers": he tried it. He says that he and his pal, Ike Akard, practiced the draw at least a hundred times a day for a month, at the end of which time "so far as witnesses could tell, our hammers fell exactly together. We'd have killed each other dead as hell at each exchange."

But suppose Mr. Askins or his pal met a man who had practiced for *more* than a month? Or a man whose reaction-time was just naturally a bit faster than theirs?

Mr. Askins doesn't commit himself, in this article, as to his best time (in seconds or fractions of seconds) "on the draw." Mr. Thomas, in his article, did. Mr. Thomas says he found by long experimentation that "to pull a belt-gun and hit anything man-sized at ten yards and under averaged about one and two-thirds seconds."

Ed McGivern has, thousands of times, drawn and hit—not only man-sized targets but often playing cards—in one-half of one second, *or less!* The best quick-draw time mentioned in his book is one-fourth of a second.

Does Mr. Askins think that, if Mr. Thomas and Mr. McGivern had met in a shoot-out, they would have killed each other? I don't think so! I think Mr. Thomas would have been hit a little more than one full second before his own shot could have been fired! . . . And I think, too, that when Ed McGivern makes that half- or quarter-second draw his hand may reasonably be said to "blur with speed!" I really do!

(Continued on page 16)

HAPPY HUNTING G

By AL LJUTIC

RIFLEMEN EVERYWHERE, I suppose, dream of a happy hunting ground, a land virgin and unpeopled, where game abounds on craggy hills and in fragrant green forests; where trout, large and small, challenge the angler; where every hunter scores his kill.

I know a place like that. It is in the Flathead National Forest Pentagon Mountain area several miles south of Glacier National Park in Northwestern Montana. At least it's enough like that to qualify, for my money!

My first trip into that country was in the company of that experienced hunter, fine rifleman, and one of the organizers and developers of civilian marksmanship throughout the west—my father, nicknamed "Admiral" —and a likeable fellow named Joe who was new to hunting but eager and quick to learn.

As Californians, we were naturally subject to non-resident big-game license rules. The fee, surprisingly enough, was nominal, entitling each man to one elk (cow or bull), one deer (buck), a mountain goat, and a silver-tip bear. The hunting season there is in the late fall, so equipment was a matter of some moment.

As packers and outfitters for the trip, two brothers, Polie and Adolph, born and reared in this wilderness, gave us attentive and very satisfactory service. Two pack horses and one saddle horse per man made a total of fifteen horses for the five of us during the twenty-three-mile-one-way pack trip and the ensuing hunt.

Arriving at the camp ground, Polie and Adolph quickly erected a large house-type tent which became our very suitable and comfortable wilderness home. Our bedding consisted of air mattresses and good quality eiderdown sleeping robes, and even with weather conditions of fifteen degrees below zero as they were one morning after a ripping blizzard, we were content and comfortable.

Woolen underwear and clothing is recommended for this country, and footgear of the rubber pac design proved most practical and comfortable during the conditions of snow, sleet, and rain encountered.

Model 70 .300 Magnum rifles, scope-sighted and stocked to individual requirements by myself, were used by all of us. Admiral's Magnum sported a 2¼X Zeiss with a Lee center-dot reticule and Redfield Senior mounts. Joe's rifle was equipped with Weaver 1X with a reticule I installed for him: conventional crosswires, with four flat-topped posts extending inward vertically and horizontally from the outer edge of the scope view about one-third of the way into the scope field; a design copied from an article by Ness in THE RIFLEMAN a few years ago. The reticule proved very satisfactory, but the making of it was no job for a man lacking considerable skill and excellent equipment!

My own Magnum was equipped with a scope of comparatively low power, a Zeiss 1½X, with Lee center-dot reticule and Redfield Junior mounts. I prefer the lower powered scopes, clarification and definition being of greater importance to me than magnification in big game hunting. In the heavily timbered areas a hunter encounters mostly close-range snapshots. Speed of alignment is essential and a reticule of the simple crosswire type suits me best.

The open season for elk, deer, and bear is one month. But the season for mountain goat is only the first five days of that period, so we hunted goat first. We left camp on horseback early in the morning of the opening day of the season, heading for the upper Pentagon Mountain region some seven miles distant. On the peculiarly shaped five-sided mountain the Rocky Mountain goat exercises cagey and unbelievably sure-footed maneuvers along the massive, seemingly sky high cliffs. It is rough country; a heaven for goats and for goat hunters, as this morning proved.

We were not long in finding game. Far across the granite shale slides and across a large boulder-embedded canyon, up on one side of the mountain we spotted four goats. The stalk began. Our brilliantly colored wool clothing, welcome enough in the cool of the morning,

GGROUND

was an asset to the goats, not to us! Those sharp-sighted cliff-climbers seemed to know the exact margin of safety and would not allow us to decrease it. Each time we got within an estimated six or seven hundred yards, the goats would go higher up the mountain. Then, at what they considered a safe distance, they would stand, statuesque and beautiful, waiting for us to follow.

But .300 Magnums reach further than a goat thinks they'll reach and we decided to try for our game. Prone, with slings adjusted, exactly as if we were trying for the x-ring on the home range, we prepared to fire. Admiral, scheduled to shoot first, agreed to settle the center-dot a wee bit above the goat's right shoulder. In the event of a miss, Joe and I were to use his rangefinding shot as a tip for our own aiming.

Admiral let drive. The handsome billy came down, head over heels, to stop, dead, between two boulders. Admiral let out a joyous whoop.

This was all very well for Admiral, but not so good for Joe and me! The remaining three goats hightailed for safety. Joe made his second shot good. But as for me, I was having a heck of a time! Each shot hit a bit over, under, or behind! My magazine was soon emptied and I reloaded. This time I managed to "zig" when the goat "zagged" and my seventh shot connected. We had our goats!

Of course, I am subject to a ribbing each time goat shooting is the topic of conversation. But I had the last laugh, at that. I do gun-engraving and have studied taxidermy to learn animal anatomy for this use, so I mounted all three trophies. Joe's and the Admiral's were killed standing, so I gave them both the lackadaisical, at-peace-with-the-world expression appropriate to such conditions. Whereas to my own trophy I gave an expression of excited alertness. The inference, of course, is plain. *My* goat was a much wiser fellow, in

A prize bull elk, running at top speed, burst from the timber, his antlers gleaming in beautifully proportioned symmetry.

desperate evasive action, naturally much harder to bag than the docile, phlegmatic others!

Evening, however, found us once again huddled around the warm stove in our tent, discussing the performance of the different types of bullets we had used. Admiral had used the protected-point expanding bullet, Joe the open-point expanding, and I had used the soft-point. All were of the same weight, 180 grains. In each case, one hit had been sufficient for an instantaneous kill, which speaks well for the effectiveness of all three bullet designs. A mountain goat is considered tough and usually requires a finishing shot. All three of ours had been shot in the vulnerable area just forward of the shoulder.

We planned to hunt elk the next day so we replaced our 180-grain loads with 220-grain ammunition. Joe decided to use the core-lokt bullet, Admiral the Silvertip, and I chose the soft-point again.

Early morning, sharp and cold, found us well into the timbered area of Hart's Basin, considered the best elk territory in the Pentagon area. Hart Basin is approximately ten miles in an easterly direction from where we bagged our goats.

Tying our horses, anxious to hunt, we soon mapped our campaign, designating where we would meet. Admiral headed directly east for the Great Continental Divide which parallels the Basin. He was to follow the Divide to the head of the Basin, then wait for a shot at elk or until we came through from our drive through the Basin to join him.

Elk are peculiar beasts. At times they are easy to stalk and approach. At other times it is a different story! Joe and I hunted about a hundred and fifty yards apart, moving with extreme caution, especially when entering the small meadows where elk like to feed. I had just poked my nose into one such meadow when I witnessed the most magnificent sight I, as a hunter, have ever seen.

A prize bull elk, evidently running from Joe, burst out of the timber opposite me, running at top speed, his antlers reflecting the rising sunlight where they branched outward in beautifully proportioned curves. His dark brown face and mane stood out in vivid contrast to his buckskin-yellow body. I could see the muscles rippling effortlessly beneath that tawny hide. I was that close!

Measurements taken later proved the distance to be twenty-five long paces. I aligned the center-dot in quick time on the area behind the bull's shoulder, trying for a lung shot. I eased off the trigger and my rifle spoke, shattering the stillness. But the bull kept going!

I stood in amazement, watching him run, his stride unchanged. I reloaded quickly, aimed more carefully for a full shoulder shot, and fired again. And once again —the same result! Could it be possible that I had missed twice at that distance?

Reloading hurriedly, I decided to try this time for a neck shot. As soon as the center-dot floated past the vulnerable area I let drive. That stopped him! He skidded to a stop, fell—and, upon arrival, I pronounced him dead. And what a trophy! He was a truly royal specimen, with a dark strong face, with heavy dark brown antlers branching into seven long points on each side.

Examination showed that all three of my shots were hits, the first shot disintegrating in the lung area, the second lodging near the shoulder blade, and the third embedding itself in the neck portion of the spinal cord. A bull elk is definitely in the Big Game class!

Leaving my kill at last, Joe and I continued our drive toward the Basin. We had hiked only about a quarter of a mile when we heard shots. There were four shots in all, and we grinned. There was the Admiral!

Sure enough, as we approached the Basin Divide, we found Admiral trying to dress a splendid six-point bull. One person is not enough to handle such an animal properly, so Joe and I pitched in.

The next problem was to get an elk for Joe. We had caused a deal of commotion in the Basin and any elk there should have departed. Tired and hungry, we decided to eat our lunch before seeking new worlds to conquer, so we worked our way into a large clearing sloping off the Divide and sat down to eat and rest. We discussed the stalwartness of elk and their ability to carry lead. But we didn't talk long!

Admiral was seated with his back against a windfall, facing Joe. I was seated in a like manner. We were eating our chocolate-bar dessert when Admiral grabbed his rifle. "Joseph, I see elk! Three elk!"

We came to attention! Sizing up the situation through my binoculars, pointing them in the direction indicated by the Admiral, I saw one large bull elk, one smaller bull, and one cow. They had apparently come from the Pentagon side, seeking shelter and feed in the Basin.

We soon mapped our stalk. Joe headed for the lower part of the Basin, Admiral stayed on the Divide, and I headed directly for the elk, sneaking along in old-time Indian fashion.

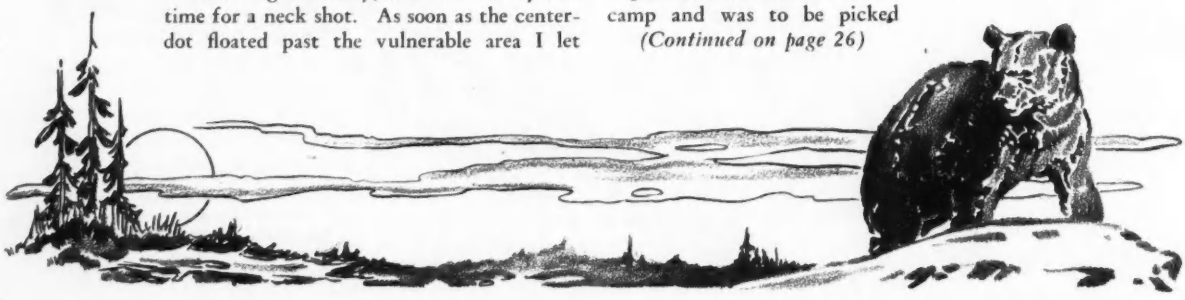
I judged the distance to be all of eight hundred yards and my stalk was successful until I had cut that distance about in half. But there the cow elk spotted me. She ran, the two bulls with her, heading for the lower Basin.

I hoped Joe would be in position to shoot and, sure enough—bang! Joe was there! We found him sitting on the shoulder of a six-point bull, shouting and jubilant.

The third morning brought sub-zero weather. The wind howled, and snow filled the air like driven salt. We spent the entire day eating, sleeping, and polishing elk teeth, hoping the storm would subside. It did, and on the fourth morning Polie and Adolph rounded up the pack animals and we set out to fetch in our trophies.

Joe's elk was furthest from camp and was to be picked

(Continued on page 26)



An Editorial

The End Is Not Yet

IF there is one thing that we in the United States have gained from the war-torn months of 1943, it is hope; a firm, well-founded hope for and confidence in the future. Successful preliminary campaigns have exploded the myth of Jap and Nazi invincibility and have proved the fighting fitness of our own troops. On the home front, we have proved our ability to produce the ships, the planes, the guns, the munitions needed to supply those troops.

Those things stand in hopeful contrast to the situation of a year ago. But the war is not won yet! Let's not fool ourselves with the belief that we can slack the pace now. We are not at the end; perhaps not even near it. We are only at the end of the beginning.

If proof is needed, witness the continued need for men in our armed services as evidenced by the plans now afoot to draft a million or a million and a half *more* men during 1944.

That fact alone sets forth the task for us for 1944. A million or a million and a half eighteen-year-olds and pre-Pearl Harbor fathers to be taught to shoot—that's our job. And, short of commanding an army in battle, no job is of greater importance!

Ask General Clark about the value of individual marksmanship in the mountain fighting in Italy. Listen to Major General Julian Smith's story of the landing at Betio. Pointing to the bodies of dead United States Marines lying in the shallow waters of the beach after that tragic and glorious landing, General Smith said, "Those men killed Japs before they died. If they hadn't, their buddies never could have reached the beach. They were trained marksmen, and they died shooting!"

We can be justly proud of our part in the training of those men who died at Betio, and of those who lived to win that victory. We can be just as proud of our part in the training of thousands more riflemen who have shot their way to countless other victories wherever American troops have fought.

But this is not the time to bask in pride, however justified that pride may be. The job is not yet done! And we are lucky that we have a job to do. Unlike those who bewail the prevalence of over-optimism but see no way in which they, personally, can help it—we can help it! We have work to do. Work, plainly mapped and charted before us, that must be done. That work is—must be—our preventive against the let-down that is the danger back of over-confidence.

A mother writes: "I need help. I do not know where to go or whom to ask to help my son continue his interest in rifle shooting. It seems to me that valuable time is being lost in these years between now, when he is fifteen, and the time when he is eighteen and will be drafted; time that might be used to fit him better for the job it seems inevitable that he will have to do. But I cannot find anyone sufficiently interested to help him."

So long as one mother can voice such a plea for one boy, our job is not done. We need—must have—more Small Arms Firing Schools, more classes, more instructors. If there is existent anywhere the feeling that the time for training is past, that the need for pre-induction schools in marksmanship is ended, let's squelch it now! Men must be trained; trained for the new campaigns that are soon to come; trained to fill the ranks depleted by campaigns past, present, and future. And we, the riflemen who can't carry our prowess into actual combat, can send it there in the hands of others! We are the ones who must train them!—W. F. S.

WILDLIFE TRAGEDIES

By LEO A. LUTTRINGER, Jr.

Deer frequently wedge themselves in tree forks. Their struggles to get free end in a broken neck—and death.

EVERY MINUTE OF THE DAY OR NIGHT some wildlife tragedy takes place. Few have human witnesses and only tracks, or the dead body of the victim, remain to tell the story.

Of course, they're not all really tragedies. The law of the wild—nature's balance—is that nearly all wild creatures prey and feed upon their lesser kin. It is no real tragedy if a fox catches and gobbles up a rabbit, or if a goshawk pounces down on a ruffed grouse. Hunters may deplore it; but the hunter is a predaceous animal too, and his kills, like those of the fox and the goshawk, play a part in the maintenance of a natural balance.

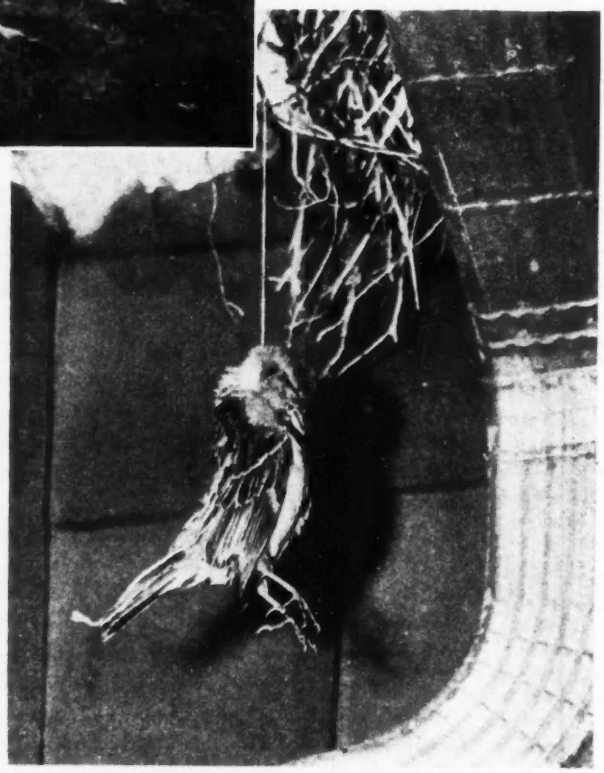
There is tragedy, however, in the sweep of fire through forest or field. Hundreds of birds and animals are destroyed every year by fires set by carelessness or by misguided intention. Sometimes nesting birds flush ahead of fire, leaving their eggs or young to burn. Others refuse to leave the nests and are burned to death. One warden, fighting a fire, saw a grouse flush before it, scooped up her nest and its contents, saved it and replaced it, next day, in its original location. Mama grouse accepted that service and proceeded to hatch her clutch right there in the ashes!

Thousands of game birds are destroyed, too, by mowers. This slaughter is being reduced, however, as farmers are urged to attach flushing-bars to their farm implements; bars extending far enough in front of the blades to flush birds from nests before death catches them.

For fish, tragedy lurks in polluted streams and long has been the fight in our national and state assemblies to prohibit such pollution. That fight is still in progress.

But there are other tragedies of the wild, most of them unavoidable, many of them almost incredible. These are the wildlife accidents; the field and forest parallels of our own bathtub and stepladder mishaps.

Bucks lock horns, sometimes, in battle, and are unable to free themselves. Lacking aid, both bucks will die. Sometimes such aid, even when offered, is rejected. One Game Protector found two bucks so entangled, one of them already dead. The live buck charged, dragging his victim with him, and had to be shot. In other cases, bucks so entangled have been roped and tied and their horns freed. Often it is necessary to kill one buck and saw his horns off in order to free the other.



This robin hung himself by becoming tangled in a piece of string intended for use in the building of his nest.

Deer frequently trap themselves in the openings in hollow trees, or become wedged in tree forks. Fleet and surefooted as they usually are, deer often lose some of their cunning in frightened flight and misjudge leaps, fall, even run full tilt into fences they might have jumped. They sometimes slip and fall off cliffs. I know of one herd of eight deer, pursued by dogs, that went over a high rimrock to death on rocks several hundred feet below.

Many animals and birds die by accidents just as unlikely and, except for the grim result, just as ludicrous, as our own human pratt-falls and bath-tub misadventures.

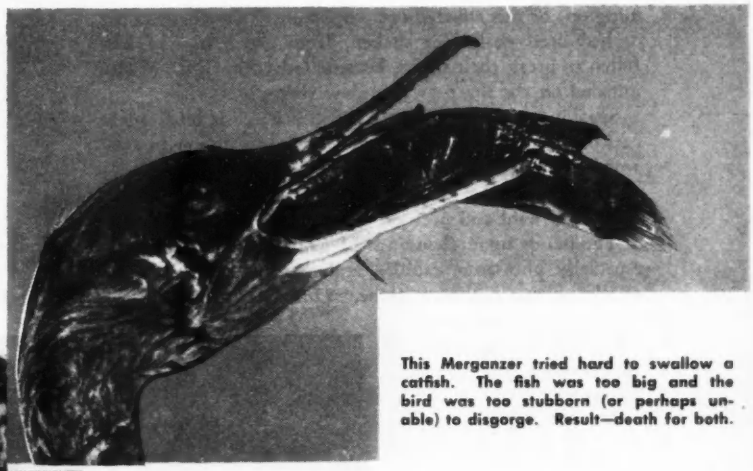
Deer sometimes drown while trying to swim ice-packed or flooded streams. Deer are killed by trains. More are killed by automobiles. Highways through deer territory are now marked, in most states, to warn motorists of points where deer habitually cross.

Such accidents are not always the fault of the motorist, however. Running deer sometimes hit cars. The most unusual case of this sort that has come to my attention during twenty-two years of work in the field of game conservation had its denouement during a recent hunting season in Pennsylvania. A hunter cleaning a fine buck found a large growth attached to the intestines. Its weight puzzled him and he cut into it. His knife penetrated only a little way and he laid back the hardened cartilage to find—believe it or not—the bright chrome handle from an automobile door!

That buck must, some time long past, have hit a car; hit it with such force that the impact drove the door handle into the buck's side and broke it free of the door. As the wound healed the handle was pushed inward into the abdominal cavity. Nature formed a sheath around it, and that sheath fastened itself to the intestines. The handle, still in its grisly sheath, lies in formaldehyde in my office now—else I would never tell the story!

Bears, too, have accidents. ("Serves 'em right, too!" I can hear you hunters saying; especially you whose hunting camps have been burgled and wrecked by these curiosity-ridden marauders.) Porcupines have them—and, again, you hunters whose hunting shacks have been eaten through by porky in his search for salt may well chortle. But those damaged camps can be repaired; whereas the accidents of which I speak are usually fatal. Even a small trap set for fox can kill a bear—if he runs amok with it and gets the trap or chained drag caught in a tree. The cub pictured here is by no means the only such victim; full-grown bears have died in traps no bigger than that into which the cub stumbled.

It is tragic, too, when hibernating bears are molested and caused to leave their young. The cubs freeze or starve.



This Merganzer tried hard to swallow a catfish. The fish was too big and the bird was too stubborn (or perhaps unable) to disgorge. Result—death for both.

This cub was saved; but grown bears sometimes die in similar straits when trap or drag catch in tree fork.

They say that curiosity killed a cat and I can believe it; but I never would have believed that a wise old woodchuck would stick his head into a tin can from which he couldn't get it out again. Yet it happened. I have pictures to prove it.

It's a bit hard to imagine how a snake could catch a squirrel; but one blacksnake did, and was sorry. The snake caught the squirrel by the head. The squirrel was full-grown; the snake couldn't swallow him; the squirrel couldn't escape. Both died.

Another blacksnake, six feet four inches long, had better luck or a bigger gullet and swallowed, not one, but two full-grown grey squirrels! I have proof of that, too, incredible though it seems.

Blacksnakes are confirmed nest robbers and, having gorged on eggs, will wrap themselves around a post or tree and squeeze until the shells break. As an aid to digestion the method is unsurpassed—for snakes.

One snake, well filled with quail eggs, disgorged eleven in order to reduce his girth sufficiently to allow him to escape from a box through an opening not large enough to permit his passage otherwise.

A lowly snail once killed a snake. It clamped down on the snake's head. (I have proof of this one, too, or I wouldn't tell it!)

Birds often suffer fatal accidents. A hummingbird flew against a screen door, thrusting its needle-like bill through the screen. The bill stuck; the bird died.

A young robin mistook a piece of cord for a worm. He swallowed and swallowed, until he choked. Would you believe that he had swallowed over fifteen inches of string? He had!

I well remember a screech owl that flew smack into the suspended nest of an oriole and became hopelessly entangled. He starved to death.

An egret swallowed a fish that had already been the victim of an ardent young angler. The fish was on a stringer. The fish went down, but the stringer proved to be the death of the egret.

Never have I seen this type of wildlife tragedy so many times repeated as in a certain black-crowned night heron colony I visited one summer. It was located in a clump of pines, and from the branches of nearly every tree hung one or more fledglings. Apparently they had fallen, or had been pushed or shaken, from the nests and had fallen to break their necks, become lodged in forks, or else impaled on the sharp twigs below them.

Speaking of birds—what a tragedy it is for birds when cats or unwanted kittens are taken out and dumped in the woods! The cats must shift for themselves, and they do—to the detriment of small game and birds. Dogs, too, become half wild and prey on game and on domestic stock.

Thousands upon thousands of game birds and beasts—especially pheasants, rabbits, and skunks—are killed annually on our highways alone. One State issued, in one year, over a thousand permits for the mounting of pheasants killed by collisions with cars.

How many such wildlife tragedies occur each year—each day—can be only a matter of wildest conjecture. But they are many; many more than we mere human beings know or would suppose.

Deer and other animals swimming flooded streams lodge in trees, are left to die when flood recedes. . . . Blacksnake, at left, was caught by the camera in the act of robbing quail's nest.

Debunking the Debunkers

(Continued from page 9)

McGivern, Groff, and others, using guns and holsters and targets carefully connected with split-second electrical timers, have recorded draw-fire-one-shot-and-hit times as low as one-fourth of a second.

McGivern has, many times, drawn and fired five shots from a double-action revolver, all hits in groups the size of a man's hand, at ranges of from twelve to eighteen feet, in times as low as one second flat.

McGivern has, at least once, fired five shots out of a double-action revolver in two-fifths of a second.

McGivern has demonstrated countless times, and has taught many others to do the often-told and frequently-called-impossible stunt of dropping a target from shoulder height, then drawing a gun and hitting that target before the target hits the ground.

McGivern, and McGivern's pupils, and scores of men not connected with McGivern, can shoot better than any cowboy I ever wrote into any of *my* stories; well enough to prove that all claims ever seriously made by any sane historian for the skill of the old western gunman are possible. Why should we doubt that men whose lives depended on their skill with guns, had it?

The handgun has a very definite place in the world of today and in the probable world of tomorrow. No other weapon has, so far, replaced it as a weapon of self-defense and of law enforcement. It has a real place, too, in sport. Let's not low-rate it.

Let's not low-rate, either, the old western gunman whose colorful legend breeds a fair share of the interest from which is born new pistolmen. We still have need of pistolmen, on the firing lines at our matches, in our armed forces, and behind the shields of law enforcement.

Debunk the old time gunman, yes; but let's stick to the truth in our debunking. And the truth is, the old timers shot right well! They did—or else!

THE PERENNIAL KRAG

By MERTON MEALY

THE THINGS THAT HAVE BEEN DONE to the good old Krag would fill a shelf of books reaching from here to yonder, but here are a few more minor alterations that streamline the appearance of the gun as well as offer simple and practical solutions to familiar problems.

As Krag shooters well know, the Krag throws its empty cases straight upward. If a scope is to be mounted low and directly over the bore, something has to be done to alter this angle of ejection. Grinding off the front end of the ejector at an angle, leaving it high on the left side will put pressure on the left side of the shell and tend to throw it to the right, but it will not change the angle of ejection enough to clear the scope entirely.

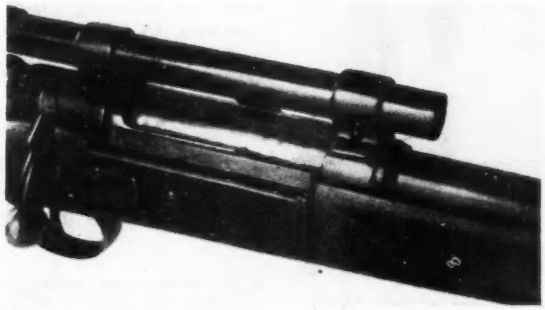
In addition, add a deflector as shown in sketch below, left. It works. Empties are thrown well to the right and do not drop back into the path of the bolt to cause jams, as may happen rather frequently if they strike the scope itself.

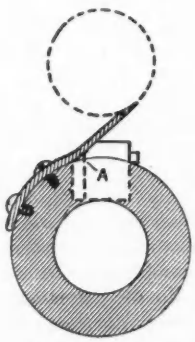
Better still, make the deflector integral with a band to fit tightly around the scope itself, as shown in sketch at right, below. Deflector would be in position then only when scope was mounted.

The flush magazine shown here (see photos) is opened by pressure on latch on side of plate. The spring imbedded in the wood below the magazine forces the plate open so fingers can get a good hold. Magazine capacity is cut to three, with one in the chamber.

Safety has been remodeled to lie close to the scope (in its "on" position). It is pushed down by a movement of the thumb. It is very convenient and easy to operate.

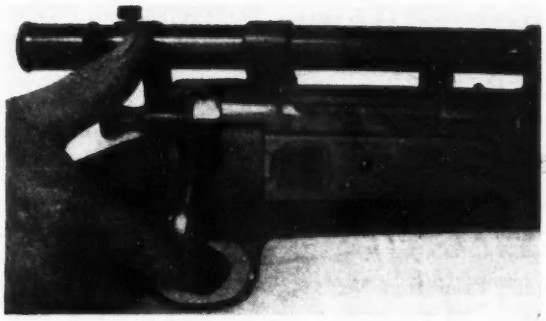
The gun as shown has a high-comb Bishop stock, twenty-four-inch barrel. The bolt handle is bent down slightly and, with the flush magazine, it makes a neat job. The bolt cannot be removed for cleaning without removing scope, but it can be cleaned from the muzzle. Bore can be examined by inserting a white patch into the open action.





Sketch shows deflector mounted on receiver. Lip is ground at "A" to provide ample clearance.

Alteration allows scope to be mounted low and directly over the bore. Flush magazine streamlines the gun in appearance. Lower picture shows the remodeled safety in "off" position.



Deflector can also be mounted on a band fitted tightly onto scope to make proper contact.

Simpler Powder Measure

MR. DU BOIS'S POWDER MEASURE, described in the November RIFLEMAN, is okay, but here's a simpler one which has the added virtue that it provides an excuse for the purchase of a can of beer!

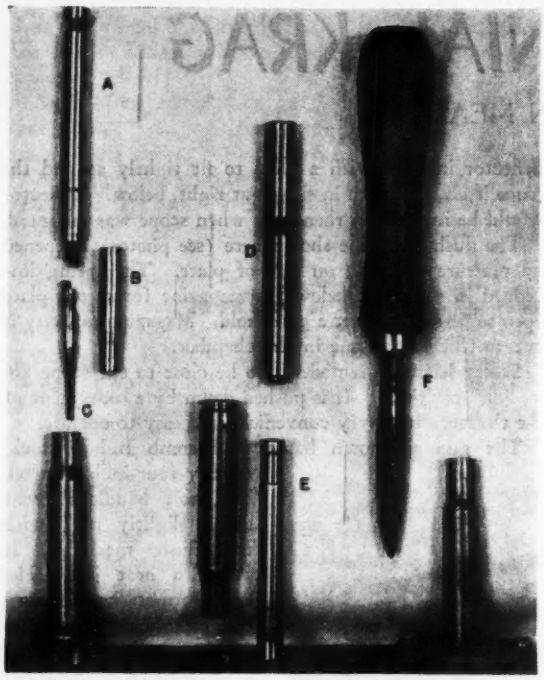
Take a small beer can with a bottle neck. Sweat the neck into an ordinary half- or three-quarter-inch lever-handle petcock. Remove the lever handle and shutoff from the body of the petcock, fill the slot in the shutoff with hot solder, and then drill a hole in the solder just large enough and deep enough to hold the proper powder charge. Start drilling with a small drill and increase size of drill used until proper size is obtained. If you get it too big, refill the hole with more solder and start over! But don't drill all the way through; if you do, when the shutoff is opened *all* the powder will come through.

Now replace the shutoff and lever handle in the petcock, fill the can with powder, and work the lever. Turn it up and the hole in the solder fills with powder out of the can. Turn it down, and the powder in the solder hole is dumped into the empty shell.

If the bottom of the petcock is too large for the cases to be filled, sweat the spout from a small oilcan into the lower nozzle of the petcock to funnel the dumped powder into a thin stream that will fall into the shell.

If you can't get a beer can, any can will do. Simply cut out both ends and sweat one end into a funnel of the proper size. Then attach the funnel spout to the petcock as above.—WILLIAM A. PARK.

RELOADING .30-



A—Decapping punch body. B—Decapping punch and sleeve. C—Decapping pin. D—Primer pocket reforming punch. E—Stem and base to support inverted case. F—Chamfering tool. Cases (.30-'06 and .30-40) in decapping holders on base at lower left and right.

LOADING ACCURATE .30-'06 AMMUNITION employing gas-check bullets at midrange velocities is reasonably easy when only one rifle is involved, but it is a far greater problem to develop one load that will perform well in each of a dozen different rifles. Since Miami Rifle Club maintains both small-bore and big-bore ranges, the immediate and prospective shortage of .30 caliber ammunition was a major problem. In order to conserve our small supply of .30-'06 service issue, we determined to reload cast-bullet ammunition for club use at 200 and 300 yards!

We bought commercial primers and powder. A fair supply of brass was on hand. Our goal was accuracy at 200 and 300 yards, equal to that of service ammunition.

Components:

Hercules HiVel No. 2 powder; Remington No. 9½ NCNM primers; modern FA cases fired only once; two types of gas checks (Kampen gilding metal, and Miami Rifle Club deep cups of electrolytic copper); and three metals for bullet alloy (93 pounds lead, 2¼ pounds tin, and 5¼ pounds antimony).

Tools for brass:

The decapping assembly consisted of a punch to drive out crimped primers and a base to support the case head and catch the expelled primers. This punch had a 5/64 inch Yankee drill bit set in its end for a decapping pin, thus making a very rugged tool. The primer pocket reforming assembly was composed of a base and stem to support the inverted case while a punch forced the crimped metal to its normal position. Our primer pocket cleaner was made of ⅛ inch drill rod with the tip gently undulated. A small electric motor revolved the cleaner at high speed. A chamfering tool, resembling a triangular bearing scraper, was made from an old three-cornered file, ground smooth. Acheson 38 electric furnace graphite lubricated the inside of case necks; a percolator brush served as graphite applicator. Gredag, a graphited grease, was the external lubricant applied to cases before full-length resizing in a Pacific reloading tool. This tool had a Spangle altered automatic primer feed. All powder charges were thrown by a B. and M. measure. Special wooden loading blocks, having a 5/16 inch hole bored clear through the center of each ½ inch case head recess, were made by members.

Tools for bullets:

The Lyman-Ideal resizer lubricator used Ideal dies of .3095 inch and .311 inch, and Dan Ehlman tool-steel dies of .312 inch, .314 inch, and .316 inch. Two lubricants were tried: Ipco colloidal graphite and a homemade mixture of beeswax and hypoid grease (Mobiloil SAE 140). Bullets from three Hensley and Gibbs moulds were used. The S-99 was a special mould cut to form a bullet with 1/10 inch-long gas-check shank, and the weight as cast was 205.5 grains. Our 99-3 mould cast a standard bullet with a short gas-check shank and weighed 188 grains. The 315-3 bullet was cast in a special mould, had a 3 caliber nose radius, a short gas-check shank and weighed 176 grains. Both 99-type bullets were similar to Ideal 308334 except for nose radii of roughly 3 calibers. All the above weights were obtained with an alloy of 93-2-5 lead-tin-antimony respectively. All bullets were seated through an accurately aligned die, similar to the B. and M. 26 or Schmitt, on a reloading tool made by club member George Sweeney.

Cleaning:

The crimped primers were removed with the hammer-powered decapping assembly. Then the pockets were reformed with the primer pocket assembly, also hammer-powered. To avoid galling, the tip of the reshaping punch was dipped in graphite every other operation. With the primer-pocket cleaner securely chucked in a high-speed electric motor affixed to a bench, the cases were held against the constantly turning tool to remove the combined primer residue and corrosion accumulated during several years of storage. Since those cases had considerable dirt clinging to them, they were soaked overnight in water to which had been added a small quantity of Oakite cleanser. Then they were rinsed in plain water, allowed to dry without heating, and stored in boxes lined with clean paper. From this point on, during the remaining operations, care was necessary to avoid getting any dirt on the cases. For each successive step the cases were placed in boxes lined with clean paper.

Reworking:

The first step in preparing the decapped and cleaned cases for loading was to lubricate the inside of the case necks. Holding several cases in one hand the percolator brush was dipped into a small amount of graphite in a shallow coffee can, rapped on the container to remove excess, and thrust into and withdrawn from each case

mouth with a twisting motion. Only two or three cases were thus treated before again dipping the brush into the graphite. Then a thin film of Gredag was applied to the outside of all case bodies and necks. To speed this operation a thin coating of Gredag was smeared on palms and fingers and four or five cases were rolled back and forth between the hands. Next, the fully lubricated cases were placed in a convenient position alongside the Pacific tool and with one complete stroke of the handle the operator resized a case and expanded the neck. Then the remaining lubricant was wiped off the exterior of each case by holding several cases between cloth-covered hands and rolling them back and forth. The final step was to chamfer the mouth of each case lightly, removing the sharp inner edge and leaving a short bevel to guide the bullets during seating, thus preventing shearing of lead. The completed cases were shaken to empty all brass chips, then stacked in orderly rows in paper-lined boxes and covered.

Bullets:

Preparation of bullet alloy required mixing the lead, tin, and antimony to produce about 100 pounds of useful metal. The lead was heated in a large iron kettle on a

'06 FOR CLUB USE

By MIAMI RIFLE CLUB, Inc.

forge. When molten, the lead was fluxed with paraffine and bullets were cast in the 315-3 mould until ten of nearly perfect shape were obtained. Tin was then added and another ten good bullets were cast. Next, antimony was added to the mixture. To minimize oxidation of the antimony (all in one lump) it was kept entirely submerged by holding it down with a ladle. Merging with the already molten metal was speeded by stirring the antimony about under the surface. Without applying any more heat than was used to melt the lead alone, the antimony joined the other metals in about fifteen minutes. The temperature was not sufficient to melt the antimony had it been alone, without contact from the surrounding fluid metal into which it sloughed off along the contact surfaces. After fluxing this final mixture and casting another ten properly formed bullets, the metal was again fluxed and skimmed, and the resultant alloy promptly poured into a cast iron corn bread mould forming small sticks of about fourteen ounces each. These pigs were then ready for use or storage. The ten bullets cast at each alloy-mixing step weighed an average of 183.05 grains, 180.55 grains, and 176.13 grains respectively. These data were recorded so that the alloy might be duplicated without using separate metals of known weight.

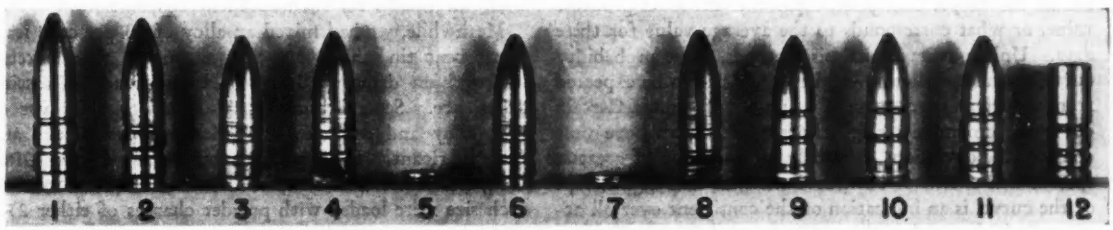
A conventional lead pot of about fifteen pounds capacity was heated on a gas hot plate. All cast bullets were carefully inspected and only the nearly perfect ones were retained. All bullets were lubricated and gas checked, then inspected and stacked in cigar boxes lined with waxed paper. Similar separators of waxed paper were used between the several layers of bullets in each box. The lubricator top punch was shaped to fit the bullet nose to avoid deformation. Lubricant pressure was applied only after the bullet had been firmly seated against the resizer stop, and the pressure was released before ejecting the bullet from the sizing die. These precautions were taken to prevent grease getting between the bullet base and the gas check, and subsequently causing separation either in loading or in flight.

Loading:

After being primed in the Pacific tool, the cases were placed base down in a loading block. When a block was filled, another empty block was placed atop the case mouths and the assembly, held tightly together was inverted. Each case head was viewed through its $\frac{5}{16}$ inch center hole to be sure that a live primer was fully seated. After inspection, the primed blocks were stacked well to one side to prevent confusion with others not completed.

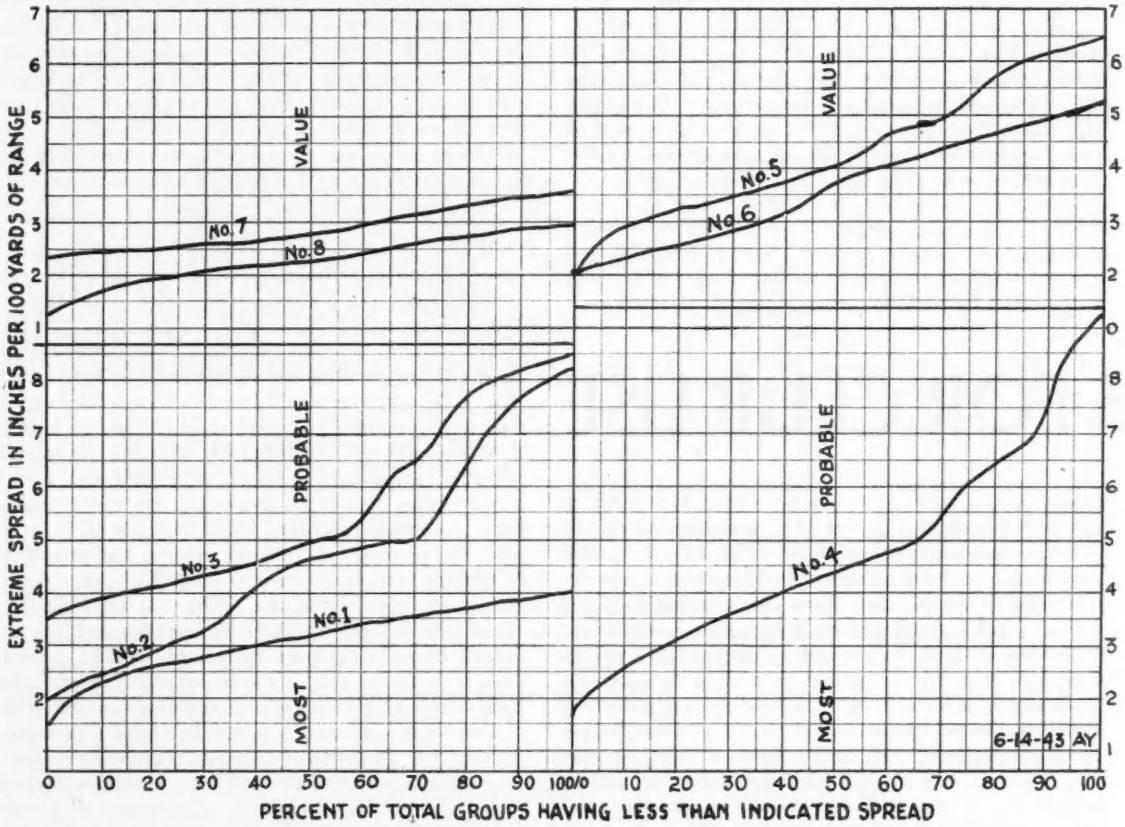
Powder charges were placed in the primed cases with a certain routine that made double charges almost impossible. A similar procedure could be adapted to other tools. In practice, it involved placing the primed or the charged cases in different loading blocks on opposite sides of the powder measure. Then, in transferring a primed case through the charging operation and into the charged block, each hand performed specific, separate duties without the case in motion changing hands. Although crossing of arms was required during the cycle, together with some actions of the left hand that seemed awkward for a right-hand operator, the necessary movements soon became familiar and were readily performed. After initial setting of the slide adjustments, all powder charges were measured and none weighed, it having been found that quite uniform charges of even such a coarse powder as HiVel 2 were thrown consistently by the B. and M. measure when the operating lever was given two strokes for each charge. Checks of slide adjustments and lock screw were made during each loading session.

As soon as a loading block was filled with charged cases they were inspected by holding the whole block under a light at such an angle that the powder level of all cases



Bullets tested: 1. S-99. 2. 99-3. 3. 315-3. 4. 315-2 with MRC gas check seated. Note cup rim jammed tight to rear driving band, cup bottom clear of bullet base. 5. MRC deep cup gas check. 7. Kampen gas check. 8. Bullet with Kampen g.c. seated. Note clearance between rim and rear driving bond, cup bottom contacting bullet except at center. 9. Ideal 311413 (Squibb). 10. B&M 311169 (Squibb). 11. Hensley & Gibbs No. 20 (Squibbs). 12. Hensley & Gibbs No. 38 (NRA Safety). Nos. 9-12 also take MRC gas checks.

could be observed. The inspected block was then handed to the operator seating the bullets who immediately repeated this visual inspection of the powder charges before accepting the case for loading. The chamfered mouth of each case had a slight bevel that permitted shallow, but secure, seating of the previously-prepared bullets while the cases were still in the loading block. That arrangement allowed rapid handling during the seating operation. After seating, the finished cartridges were placed side by side in alternate directions in waxed-paper-lined cigar boxes, about 150 rounds to the box, with lid tightly closed to keep out dirt and dust during storage. The reloaded ammunition was then ready to be fired.



Results:

Our results, with all data converted to 100 yards by dividing each group measurement by the number of hundred yards range, have been interpreted by curves plotted on linear-graph paper. In reading all of these curves the 50 per cent point represents the most probable value, or what corresponds to the average value for these data. Unlike average analysis methods, these probability curves permit prediction of the group size to be expected from any given percentage of a number of groups. Certain curves approximate straight lines while others have very considerable deviations, especially in the region of greatest spread. The extent of such deviations, as well as the slope of the curve, is an indication of the consistent over-all accuracy which may be achieved because all three major factors (ammunition, equipment, and human) were included.

It should be emphasized that the greater portion of the test groups was fired from Army prone position. Iron sights were used. One member used an 8X target scope to reduce sighting errors. All rifles were of the usual military or sporter type with Enfields and Springfields about equally represented.

The first reloads were with S-99 bullets cast from babbitt metal. These had a bore-riding nose portion that was too large (.305 inch) to allow proper chambering, and so proved unsatisfactory before a single shot was fired. One member cast a few S-99 bullets from a soft alloy which shrank the diameter and Curve No. 1 illustrates the resultant groups. (See table for more information.) In the meantime, because we thought that even with a soft alloy too much chambering difficulty would be experienced during rapid fire, the S-99 mould blocks were returned to Hensley and Gibbs together with an explanation of our trouble. They promptly sent two pairs of blocks, 99-1 and 99-3. After casting a few bullets from each, we decided the 99-3 type was best suited to our needs. The 99-1 blocks were then returned along with our thanks for such excellent cooperation.

Meanwhile, we had mixed an alloy of 93 per cent lead, 2 per cent tin, and 5 per cent antimony, that mixture having been determined on the basis of actual casting experience. Several hundred 99-3 bullets were cast of that alloy and equipped with Kampen gas checks and Ipco lubricant. Half of these bullets were sized .3095 inch, the others were made .311 inch diameter. Some of each size were loaded with powder charges of either 25.1 or 26.5 grains of HiVel 2. Groups were fired at various ranges by several shooters using different rifles. Curve No. 2 represents the five-shot groups and Curve No. 3

(*Continued on page* 34)

Short Guns For Speed

By MAJOR CHARLES ASKINS

FROM TIME TO TIME a wave of argument sweeps the shotgun-shooting world concerning the pro's and con's of light, short-barreled guns. Some of the arguments offered on both sides are good, some are doubtful, some are patently absurd. But there are good, valid arguments on both sides of the question; and once the shooter knows the actual effect of light weight and short barrels, he can take 'em or leave 'em alone as best suits his individual needs or preferences. It depends largely on what he wants.

The advantages of the short, light gun are: handiness, speed in covering a target, less weight to carry, and certain optical features to be explained later.

The disadvantages of the short, light gun are: increased recoil, lower velocity, less steadiness, less accuracy in aim.

Most people will "get on" a target quicker with a short-barreled gun. I believe one reason for that is optical. Even if we do not actually see the sight, as many shotgun shooters claim, most of us do see the front end of the barrels when aiming or just at the instant of pulling the trigger. Now, the eye can see most accurately an object that is still. In the case of a moving object, the slower the movement the more accurately it can be judged by the eye. If we had a gun with a barrel ten feet long and swung it as smartly as we do a short-barreled arm, the front end of the long gun would blur into a moving streak and we couldn't possibly tell exactly where it was pointed at any given instant. The front end of a short-barreled gun appears to move more slowly than does that of a longer weapon at the same actual speed of swing. Instinctively, the shooter speeds up his swing to get the apparent muzzle-speed to which he is accustomed. The result is that he covers his bird quicker with the short-barreled gun.

The matter of short barrels and the resultant quickness of aim has been pretty well threshed out in England. One prominent gun manufacturer there strongly advocated twenty-five-inch barrels to supplant standard lengths.

Some shooters go so far as to declare that, with these short barrels, no lead at all is required. Now, it is obvious to any reasoning mind that the actual lead required is not affected by length of barrel; but the apparent lead may be, and apparent lead is really the governing factor. If the bird is killed without apparent lead, or with a much-reduced apparent lead, the result is attained. And I do believe that the short-barreled gun, if swung as sharply as the eye can gauge the front-end movement, will cut down apparent lead.

That is one side of the story. The other side is—will the aim be as accurate? I'd say that it won't. The same rule that applies to pistols and rifles applies also to shotguns: the longer the barrel the more accurate the aim. I have used shotguns with barrels as short as twelve inches. With such a gun, although the shooter may swear that he was squarely "on" when he fired, the bird may be missed completely; whereas with a gun with thirty-two-inch barrels an error in aim of two inches at forty yards will be readily seen. The principle seems to be: speed with short barrels, accuracy with long. Make up your mind which you need most and your intentions can be furthered by your choice of barrel length.

Which you will choose depends largely on the nature of the shooting you do. For brush shooting, the short barrel is fine. There, the increase in speed enables you to cover the bird and drop him before he disappears. But the man whose shooting is at passing fowl at ranges up to sixty yards, where the lead must be exactly accurate, will make sorry work of it with a short-barreled gun. Give him a gun with twenty-inch barrels and he won't be able to tell within a foot of where he has held; whereas, with long barrels, he can see exactly where his gun was pointed.

The best answer usually is, don't go to either extreme. Most shooters need general utility guns, not specialty guns. Gun manufacturers know this, which is why they furnish barrels from twenty-six to thirty inches and protest (or ask why) before furnishing non-standard lengths.

However, in order to try theories out in practice, I ordered a 16 bore quail gun, a double, with twenty-four-inch barrels bored cylinder left, modified right. I specified the weight just scant of six pounds and every effort was made by the builders to keep the gun light. Result—the fastest and deadliest gun on quail in the jack oaks that I ever shot. But when birds take to the open, making accurate lead essential, it's not so good!

I compared results obtained with this gun and with another gun of still lighter weight but with longer barrels throwing 20 per cent closer pattern. It all depends on how the birds behave on a particular day. If it's brush shooting, the short gun wins. If not, I wish I'd taken the other gun. . . . But the point is, the short gun is faster than the longer, lighter gun. So the short barrels do affect speed, entirely aside from weight.

Next comes the question of recoil. About all some of us know is that short-barreled guns seem to kick us harder than guns with long barrels. This is due partly to illusion caused by proximity of the noise to the ear. But recoil is, actually, heavier with a short-barreled gun firing the same load. Newton explained this. Hot gas at high pressure reacts on the air, and gas pressure is higher when the charge reaches the end of a short barrel than it is when the charge reaches the end of a longer barrel. Result: more recoil.

Speaking of velocities, the question continually pops up: Do short barrels reduce velocities? Well, a lot depends on the load. Will all the powder burn in twenty-four inches of barrel, or in twenty-six—or twenty? Very heavy loads of any powder burn more rapidly, other things being equal, than do light loads. Heavy loads of powder and shot force burning pressures very high at the breech, and the powder is consumed in a hurry. Lighter loads require

(*Continued on page 35*)

That Man Peterson

By ALLYN TEDMON

Like most men whose lives have been devoted to the making of match rifles, Peterson himself was a tough competitive rifleman.

A. W. PETERSON is eighty-four years old now; but he is still working. It hasn't occurred to this Stockholm-born octogenarian that he might rate an old-age pension or that the world "owes him a living." Work, and the love of fine workmanship and fine guns, are the tenets of his creed and the Peterson barrels that go out of his shop on Larimer Street, in Denver, Colorado, still bear the mark of the master hands that have made fine barrels for fine guns for fine marksmen through some sixty years of American gun history.

He looked amazed when I asked him for a story of his life. "Who vould read? And, anyvay, I don't know vere to begin. . . . I set type for two years after I come to America, for my brother in Chicago. I learn fast, in spite of getting little schooling at home, in Sveden, vere ve lived not near a school. Ven I come to Denver, I couldn't speak English even and I had only ten cents in my pocket. That vas in 1879. I valked from Pueblo; a hundred and twenty-five miles. I slept in haystacks."

He is not a big man, this Peterson. He is perhaps five feet six inches in height; weighs possibly a hundred and thirty-five pounds. He wears glasses, walks with a slight stoop. I never saw him without a cap on his head.

His shop is his kingdom, full of the accumulation of the years. His bench is at your right as you enter. Opposite it is that of his son, Roy Peterson, a skilled workman and fine rifleshot in his own right. Farther back, on your left, a line of long reamers stand in a rack like a picket fence in front of other racks filled with old guns and old stocks and old actions of all models, kept for the rare parts they can furnish. In the middle of the long room stands the big aluminum-painted safe. There are milling machines and barrel-drilling machines and lathes. There are trophies on the walls, and pictures of hunting scenes and old-time riflemen, and targets punched with bullet holes and well labeled with names and dates.

First job in Denver was in a little shop on Larimer Street. Eleven years work enabled him, in 1890, to buy his own shop.

"A. W."—that is what his friends call him—had not been trained as a gunsmith in Sweden, but he was a born mechanic and a worker. At the end of eight years after his arrival in Denver he had saved enough money to buy a little house with three rooms.

"Then I got married," he said, his eyes twinkling. "In three more years I sold that house for $300 more than I paid and I took that money and started my own shop. I have run my own shop ever since, except vunce for vun year during the last war ven I vorked for Browning, in Salt Lake City, helping him with his first machine gun. I add to my shop as I go along. I have plenty of tools and, if I don't have what I need, I yust make it."

About 1908, A. W. Peterson entered into partnership with the noted Denver barrelmaker, George Schoyen; a partnership which lasted until Mr. Schoyen's death, in 1918. "His name vas on our barrels whether he made

them or me. Ve both made the Schoyen barrels. He vas a very fine vorkman."

The Peterson shop is the hangout of the leading riflemen of the Denver area, now and for years past. Riflemen and sportsmen from all over the country may be encountered there. A. W. knew Harry Pope well when Pope was running a bicycle shop in Denver. The late Chauncey Thomas spent a good deal of time in Peterson's shop; and C. W. Rowland, probably the greatest rest shooter this nation has developed, did much of his work there. I spoke of Rowland and Peterson said, "Oh, sure, Rowland, he vas a fine man and awful particular. Schoyen and I made his barrels and did much of his vork."

But when I asked him to name other "greats" for whom he has made barrels, he threw up his hands. "My-oh-my, I cannot tell you them all! There was Rowland, and there was Doctor Hudson, and Walter Stokes, and T. K. Lee, and Captain Hardy, and Ed McGivern, and N. H. Roberts, and—oh, Roy, vere is that old book that has the customers' names in it?"

But even when the book was found, the list is incomplete. There were the brief records of barrels made for men in nearly every state in the Union, and in foreign lands. There was one for Doctor Oschner, noted gun collector of Durango, Colorado; one for Thomas Smith, father of the Colorado Rifle Club. There were other names: Major John J. Dooley, Frank Ridgway, Laurence Nusslein, Hervey Lovell, C. T. Westergaard, Griffin and Howe, W. A. Sukalle, William L. Bruce (International teammate of Walter Stokes), C. E. Howard, John Stokes, Ed Bres, W. J. Coons, and others; a veritable roster of gun-celebrities. There, too, was one, Harold J. Allyn, whom I suspect may be a relative of mine. And there were J. R. Buhmuller and Charles Johnson. . . . The list seemed endless.

It was noticeable, too, how many repeat orders there were. The Remington company had several barrels made, as did the Peters Cartridge Division. A great many barrels went to Pennsylvania. The S. V. Pfeuffer Company, of New Braunfels, Texas, was a steady customer.

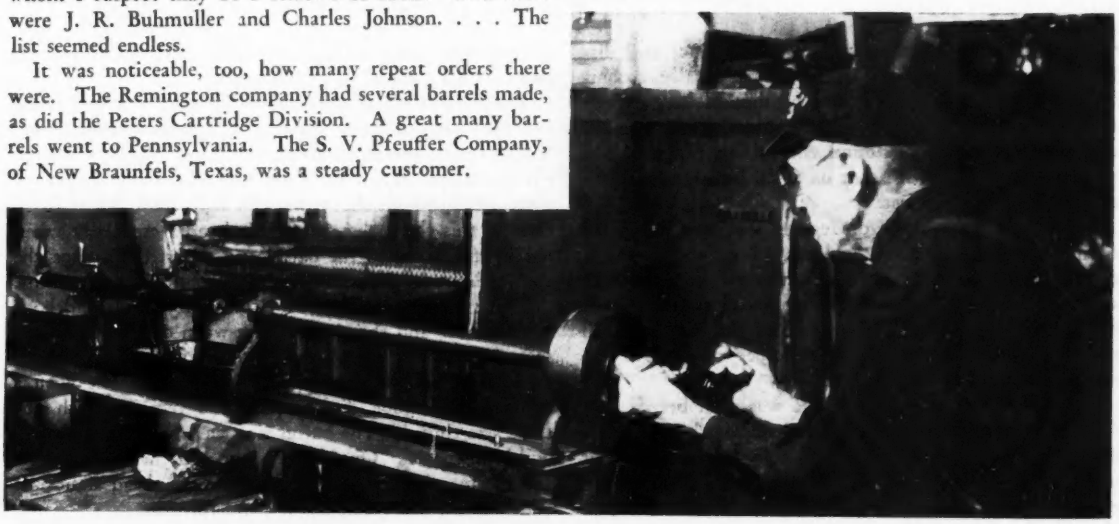
the old record book, most of the actions sent to him were Ballards, Stevens, now and then a Winchester. One order (perhaps it was from Hervey Lovell) specified two foreign actions.

There were many orders, too, for reboring jobs. One such order was for reboring a worn .32-40 to a .33-40, to use the same cases after expanding them to fit the new chamber. This was also done with a .38-55, reboring it to .39 caliber. One of C. W. Rowland's guns was a .33 caliber barrel (Schoyen, if I remember correctly) on a Winchester action. Peterson has also made many pistol and revolver barrels, at least one of the latter being for Ed McGivern. A. W. has made a few barrels of hard steel but this is not his line of work and he does not like it. His forte has been super-accurate target barrels.

He has made some beautiful rifles on the Hammerless Sharps action and some particularly fine Hornets. This action is his favorite hunting and target action for the heavier and more powerful cartridges. His double-set trigger for this action is a revelation.

Peterson was one of the first, if not the first, American gunsmith to make a rifle telescope with internal adjustments. He made many scopes and scope mounts; also reloading tools and the like. The truth is that A. W. Peterson can make just about anything he wants to make! He has a splendid forearm-action .22 repeating rifle that he made; also an over-and-under shotgun and rifle. Recently he was fitting up a new long .22 caliber barrel to one of the earliest Frank Wesson single-shot pistols. The original had no extractor; the new barrel has an ingenious finger-manipulated extractor in it.

Like most of his contemporaries in his line, he was a consistent, tough, competitive offhand rifleman. He was so good that he was in the win column more often than not! In the December 5th, 1905, issue of the *Rocky Mountain News* is a report of a rifle tournament held at the old Denver Rifle Club range in which A. W. took everything but the range itself! In the fifty-shot 200-yard match, on the Standard American target, his score was 432. In a five-shot match he scored 44. In a ten-shot match his scores ran up 220. . . . At another time he ran 98 at 200 yards, decimal count. This, I believe, was (if it is not still) a world's record. The score ran:



Accurate, meticulously made, Peterson barrels are known around the world, used by many of the greatest riflemen of our time.

I asked Mr. Peterson how many barrels he has made. "My-oh-my," he said, "I cannot say. At least six or seven hundred, I think maybe. I made fifty at one time for the Colorado National Guard. Those ver off-center .22-caliber barrels fitted to Krag actions very good for indoor practice."

The Ballard is Peterson's favorite rifle action for the building of the super-accurate Peterson match rifles that have won such a nation-wide reputation. According to

9-9-12-11-11-10-12-10-11-10. His next three scores were 93, 90, and 89. . . . At another time he scored 241 on the German ring target, one point under the record.

A great deal of Peterson's target shooting was done with the old flip-up Springfield. Pointing to one of them in the rack, he said, "I've fired at least a ton of lead out of one of those things. When we ver shooting those 500-grain bullets it didn't take long to shoot a pound and we shoot a hundred and fifty shots a day, sometimes."

A. W. came west as a boy partly because of the hunting he had heard was here, and hunt he has, even into Alaska. The story of his 1912 trip into Alaska was published in the Denver Swedish paper. He gave it to me to read. It is a very interesting story—but there is not a word in it about hunting! Why? Well, now that so many years have passed, it can be told. It seems there was some mix-up in the matter of game licenses and it seemed preferable at that time to confine the story to scenery rather than game. But the trip was a success in both ways.

On that trip Peterson used a Springfield '06, but his earlier favorite hunting rifle was the Sharps hammerless. To quote him: "The .45-70 Sharps-Borchardt vas my favorite both for hunting and for target shooting; but my biggest score vas made with a .38-55. Alvays if I made a good shooting vith a rifle, somebody vould vant to buy it. Then I'd make me another."

In the fall of 1942, Mr. Peterson went hunting and got his buck, as usual. When I remarked how consistently he had turned this trick, he said, "Vel, I don't go out shooting with a gun I don't know how she shoots!"

He used the .30-'06 for hunting for a while; then the .30-30 carbine because it is lighter to carry. He had one, a Winchester, Model '94, with an offset telescope; but when I started looking for it in his rack, he said, "I have not got it now. I sell 'em ven I come home. Next time, I yust fix me up another."

Back in 1882, Peterson made a trip up into North Park with a team of mules and a wagon. This was not long after Ed Howard's parents had settled there and they met then for the first time. Peterson says, "There ver antelope as far as you could see in every direction! At one of our camps they ran right between the wagon and the campfire. I never saw so many anywhere else as there." He laughed, and added, "I don't forget I came avay and left a good Colt revolver hanging on a tree limb either!"

Peterson knew most of the old-time frontiersmen. Jim Baker and W. F. Cody he mentioned especially.

And he is still making barrels! He says he is about ready to quit; in fact, he did quit, a few years ago. But not for long. Orders kept rolling in; orders, accompanied by checks signed in blank. "Name your own price!" Most of them got their barrels. They're still getting them; the riflemen of America won't let him quit!

Last time I visited him, there was another barrel in that old vise and there was Peterson, putting the finishing touches on it. "But this is my last barrel," he said.

I said, "Your last until the next one, I'll bet!"

His blue eyes twinkled. "Maybe," he said. "Maybe . . ."

A .22 Caliber Shotgun

THAT THE .22 SHOT CARTRIDGE has distinct and disappointing limitations in the guns usually recommended for it is a fact I learned by dint of long experience. In .22 barrels worn nearly smooth, and even in smooth-bored barrels, I found the killing range of the small Number 12 "dust" shot on small birds and animals to be eight to twelve feet.

Choke was the solution on regular shotguns, so I tried adding choke to an old .22 barrel. I ground a $^{13}/_{32}$" drill to a sharper point so that it would follow the bore and drilled out the muzzle of that barrel to a depth of five inches, by hand. I then ground the bit to a still sharper point and drilled a bit deeper to remove the shoulder left by the original cutting.

A $^{1}/_{4}$" piece of $^{5}/_{16}$" round file was then brazed to a foot-long piece of quarter-inch rod and with this tool I enlarged the inside of the $^{13}/_{32}$" hole (rather, belled it out) except for the half inch at the muzzle, which was not enlarged. Result: a half inch of $^{13}/_{32}$" choke at the muzzle, then a half-inch bore (approximately), tapering back to the .22 bore. This was the choke.

Undoubtedly there are better ways of doing it, but I took out the small amount of rifling remaining in the rest of the barrel by using a small, fine, round file brazed on the end of a .22 cleaning rod (steel). By putting a slight kink in the rod and working it back and forth, I got the rifling out, but left a lot of scratches.

Polishing was done with the same tool but with emery cloth wrapped around the file end. Final polishing was done with emery cloth wrapped around a .22 brass brush. Polishing of the choke was speeded up by use of an electric drill with a strip of emery cloth taped on the end of a 6" piece of $^{3}/_{16}$" drill rod.

Throughout these operations the gun was patterned and each pattern kept. Testing was at forty feet. I intended to use the gun only for rat shooting, so when the pattern closed down to eight inches I quit. I have a three-cell flashlight that throws an eight-inch spot at forty feet, so this equal shot pattern is handy, especially when the light is fixed to the barrel and adjusted to place the spot of light on the point of aim. Results were excellent.

This gun was a little old Meriden single-shot and both the chamber and the ejector were worn out; so I put the same barrel on a Winchester M-06 action. I took about an inch off at the chamber end and threaded it with a standard $^{3}/_{8}$" pipe die, tapping the receiver with the same size thread. The barrel was then fitted, chambered, and head-spaced. One slot was cut underneath the barrel for the magazine ring. A brass shotgun bead sight was added, and I made a new stock and forearm.

Many will doubtless be shocked to hear how I made the chambering reamer I used for this job. I bought a fifteen-cent taper reamer, Handy No. 4. I honed down the larger portion until it was no longer tapered, but straight. After it miked straight and round I honed till it was the same diameter as a sample .22 case. The inch or more of the reamer that was smaller than the bore naturally stuck away inside when reaming, but I ground the edges so this would act simply as a guide.

The ejected shot cases from this chamber are straight and the shot does not have to go over a sharp shoulder.

Anyway—it works.—FRANK DE HAAS.

THIS PISTOL PACKIN' WAR

By W. H. B. SMITH

THE ARGUMENT FOR THE HANDGUN as a military weapon, presented in a recent issue, can be documented now with facts and figures. For this war, contrary to certain prophecies, is not a war of firepower alone, or of long-range weapons. Individual marksmanship is more and more in the news. Close, savage, individual fighting plays a big part in this war; and there, as has been said before, "the handgun shines."

Surprisingly enough, too, to one like myself, a member of the big-caliber school, believer in the legend that only Americans know enough about handguns to have opinions about them, the handgun caliber that is forging to the front in this war is not .45—but smaller! The military handgun today is, by a vast numerical majority, of calibers approximating the .38.

Here are the handgun facts as they have evolved during the past few years from the vast testing and sifting-out processes of actual combat:

Let's start with the British, who have developed a system of man-killing revolver technique that is new in military history. Their firing courses are designed for combat shooting; they are taught to hit a *man;* to hit him at short revolver range, quickly, with a maximum number of hits per cylinder!

German "Pistole '38" The Walther Model H P 9 mm. Automatic

It is no secret that both Commandos and troops-of-the-line, British, Australian, and Canadian, are being increasingly armed with "Pistol No. 2" (the Enfield) or "S&W Pistol No. 2" (our own Smith & Wesson). These shoot the standard British .380 Service cartridge, which is little other than a British name for the old reliable .38 S&W Super Police; in other words, the time-tested .38 S&W cartridge with a 200-grain slug. These revolvers will handle the standard 146-grain bullet cartridge also.

How widely are these revolvers being used? Well, again it's no secret that already more than three times as many have been turned out in this war as in the previous fracas. And not only the British but also the Germans are issuing handbooks on how to use these British .38's!

British experiments with the "Pistol No. 2, caliber .380-inch" began back in 1928. Developed at Enfield, this six-shot, hinge-frame revolver is popularly called the Enfield to distinguish it quickly from the old "Pistol No. 1, Mark VI, caliber .455," (the .455 Webley) which it rather closely resembles in exterior appearance.

The Enfield was scientifically designed to permit quick pointing and rapid snap shooting. The shape of the trigger guard and the general balance of the weapon were meticulously worked out to help the average man jab the revolver directly at a man's vulnerable points as instinctively as he would point his finger. Barrel length is five inches, weight is about twenty-eight ounces; a full three-quarters of a pound lighter than the .455. The cylinder stop and lock designs are different than the older types, and a detachable side plate gives easy access to the mechanism for cleaning.

But the really important factors are these: The lighter weight and lower recoil result in less flinching and more hits per cylinder by the average shooter, with faster delivery of a given number of effective aimed shots and an ability to bring the weapon more quickly into play. Also, the heavy 200-grain slug moving at low velocity (about 650-feet per second) together with the inherent accuracy of the cartridge at revolver distances stops moving men quite as effectively as the bigger bore.

Now we'll grant that all this sounds like heresy. But the documentation for these claims is impressive.

For instance, let's go back to the start of the present conflict. British factories couldn't turn out the .38 Enfield fast enough, so the British War Office turned to the U. S. to augment the supply of revolvers. Companies like Smith and Wesson had to tool up to supply the demand. The difference in tooling for .455 or .38 was negligible; but already intensive British pistol training had established the psychological advantage of the lower caliber in the hands of the average man, so the trusty S&W Military and Police again went into wide scale production, this time with a five-inch barrel and chambered for the .380 British Service cartridge.

The British are making wider use of the revolver than any nation has ever done. And in the face of the actual battle experience of their soldiers, they certainly rate as experts in man killing. Remember, they are not interested in the occasional crack shot who can smack a man with a revolver bullet at 200-yards; they have developed revolvers and techniques for the *average* man to knock down the other fellow at 30 to 50 feet—but fast!

What about the Russians? They have had rather more than their share of experience in the university of hard battle-knocks. After using everything they could scrape up, borrow from us, and take away from the Jerrys, they have put into production their "Tokarev" Automatic Pistol—a pistol almost exactly like an overgrown Colt .32 Auto. And in the face of all their wide experience with big calibers, the Russians adopted a cartridge of 7.63 mm. caliber closely resembling the Mauser 7.63

mm. but with a lighter load. This, remember, is a .30 caliber weapon! And instead of retaining the high velocity (1392 feet per second) of the original Mauser cartridge, they have chopped it down to about 1000 feet per second.

What about those real experts at mass murder, the Germans? They're still turning out their Pistole '08 (Luger) in a constant stream in the standard 9 mm. (.35) caliber. And once again they are using the old 32-shot snail magazines developed in the last scrimmage for use in either the Luger pistol or the Bergmann Machine Pistol.

Far from throwing the pistol overboard or from increasing the caliber, the Germans in 1938 officially adopted the new double-action Walther Model H. P. 38 Automatic Pistol, labelling it the "Pistole '38." This excellent arm is a big improvement over the earlier Walther Police Pistols. It was tested in a caliber approximating our .45 Auto, but was finally adopted and put into general production in the regular 9 mm. Parabellum (Luger) caliber. This weapon, combining the superb hang, balance, and grip of the Luger, the overall sturdiness of the Colt and the simple, strong lock system of the pocket military Mauser type, adds several new features to make this something really new in the field of one-hand guns.

The Germans apparently intend to supplant the Luger with this Walther if time permits. Meanwhile, however, they are going right on using Lugers, Walthers, Dreyses, Frommers, Steyrs, Brownings, Mausers, etc., all in caliber .35 or smaller!

The Italians? While they did have a quantity of Bodego revolvers of about .40 caliber, their standard side arms were the Glisenti Auto Pistol handling a Luger-type 9 mm. cartridge with a comparatively weak load, and the 9 mm. corto (.380 Auto) Beretta pistol. The first is a monstrosity; the latter, one of the finest, simplest, sturdiest small pistols ever developed.

Next on the list is Japan, where three automatic pistols and a revolver are in general use, though not on the scale in effect in other nations. The pistols are all 8 mm., which comes out about .32 caliber. One Jap auto pistol, pocket size and known as the Pattern 34, is right out of Buck Rogers in appearance, and the fellow who designed it is either the Nipponese equivalent of Rube Goldberg or a saboteur. It is rumored that more men have had their eyes shot out by leaping springs when this weapon was being dismounted than have been injured by bullets from it. One of its quaint little features is a rib which protrudes from the receiver when the pistol is cocked. Squeezing this gadget will fire the pistol without the formality of pulling the trigger. What for, nobody knows.

In our own country, the Coast Guard and Naval flying personnel are again being issued four-inch barreled .38 Specials; this at the same time that we hear a lot of talk about the Carbine replacing pistols.

The British have issued huge quantities of Sten and Lanchester Machine Carbines (as they call the Submachine Gun) in caliber 9 mm. Parabellum, but they have found a definite tactical use for them. They are a *new* weapon, *not a substitute for the revolver.* The Russians, after the terrific initial pasting they took from the Suomi Submachine Guns of the Finns, took up the use of the Submachine Gun on an absolutely unprecedented scale, outfitting whole battalions with them. Again the calibers are 9 mm. and 7.63 mm. And again these weapons are not supplanting, but rather augmenting, the revolver for special purposes and beyond effective revolver ranges. The Germans, while issuing their superb Schmeisser Machine Pistols with the prodigality for which they are famous, are nevertheless continuing the issuance of pistols on a wide scale, even putting a new type into production.

For their specific types of uses, the Carbine and these submachine weapons are far ahead of the pistol. But when the score is finally in, the chances are that, like our Allies and our enemies, we will find that the one-hand gun is irreplaceable *in its special field.*

And, after weighing all the facts, it would seem that the 9 mm. Parabellum is the most widely adopted, universally used, and all-around satisfactory handgun cartridge in the world today from a military standpoint.

Happy Hunting Ground

(*Continued from page* 12)

up first. Arriving at the scene of the kill we found the quartered elk strewn as far as a quarter of a mile down the canyon. A hungry grizzly had had a meal! The fresh snow revealed tracks nearly fourteen inches long.

Joe looked at me and I looked at Joe. Admiral was r'arin' to go after the bear. So we told the packers where to find our other two elk and set out. Joe was a bit reluctant about hunting alone this time, but he agreed to take the lower side of the Basin. Admiral headed, again, for the upper Basin; I followed the bear's track.

I understood Joe's hesitancy. Each step I took I could see the clear imprint of that bear's foot. It was a super foot! Not a foot I'd want shoved in my face; definitely not! I'm a great believer in safety with firearms, but this time I shoved my rifle safety off, just in case.

I had followed those tracks a bit more than a mile when I heard a Magnum speak twice. There was a pause, then a voice calling from my right. I moved, and found Joe. Joe was standing by a tree—and about a hundred yards below him was his grizzly. The bear was down, but Joe had the appearance of being in no great hurry to approach him. Nor did I blame him. The bear didn't look dead to me, either!

Joe had come upon the bear unexpectedly and the bear had charged him. Joe says he can remember the four blunt posts of that unusual sight-reticule framing that charging hulk as he fired. It was a case of shoot straight or climb a tree, and Joe stopped him.

The grizzly moved as we approached him; moved, and roared. The sudden noise scared us both! We let him have it, both together, and that was that. He was plenty dead when we reached him.

Did you ever try packing a bear-hide on your own shoulders over mountainous country? We didn't intend to do that; we had horses. But those horses didn't want to pack anything that smelled as much like bear as that hide smelled. They ran. I don't blame them, either. After six and a half miles of close, bloody, grunting contact with that hide, I have a decided aversion to the smell of bear, myself! But we got there, finally. And the memories we have of that hunt make even that long hike and that smelly pelt a minor irritant.

Lead Bullets in a Zipper

By H. K. DAVIS

THE SIXTEEN-YEAR-OLD of our family bought a Model 70 Winchester Hornet, rechambered and adapted to the Zipper cartridge by Sedgley; a beautiful job but, to the paternal mind, rather startlingly out of the class of the .22's and .410's to which he was accustomed. However, he had toiled all summer in the Iowa cornfields to finance the deal and we hadn't the heart to refuse him.

Factory cartridges being unobtainable, reloading seemed to be indicated and, since Dad still had on hand some primers and certain kinds of powder, the search for cartridges was amplified by a hunt for jacketed bullets. The results there, too, were disappointing; so when a .22 caliber bullet mold showed up it was seized upon with thanksgiving. This mold was brand-new and cast the Ideal bullet No. 225415, weight forty-eight grains, with three bearing bands, two grease grooves, and a flat nose. But it also required a gas check! Producing this item took all of our spare time for three weeks, but when it was done it worked, turning out a thousand .22 caliber gas checks in about two and one-half hours.

With the gun had come a double adjustable loading chamber, a neck resizing die, and an expanding plug which fit Dad's Ideal No. 10 loading tool. The lathe produced a flanged bushing to reduce the hole in the handle from the diameter of the .30-'06 cartridge to that of the Zipper. But we needed a sizing die to seat the gas checks and size and lubricate the bullets, so the lathe was pressed into service again.

A batch of scrap lead was thrown into the melting pot and hardened with type metal. The exact temper of the resulting mixture was not known, but the thumbnail would not mar the bullets and we assumed that they were hard enough. A hundred bullets averaged 44.12 grains, more than 75 per cent of them falling between the weights of 44 and 44.2 grains which was fine uniformity. The gas-checks weighed 1.37 grains each.

At first, the trial loads funneled out a little too much to be flattering when fired at 200 yards. But when the sixteen-year-old had got his eye and his trigger finger partly educated and was beginning to show an occasional two and one-half inch group at 100 yards, the Redfield sight was removed, a 10X scope was installed, and the information began to collect more rapidly.

Number 80 powder was tried in charges of 13½, 13, 12, 11, 10, 9, 8½, and 8 grains. The two highest charges flattened the primers somewhat and left chamber marks on the exterior of the cases but gave no trouble with extraction. The 9- and 8½-grain charges showed the best accuracy and seemed about equal in this respect. Each of them produced ten-shot groups under two inches prone with rest at 100 yards when the shooter did his part. We favor the 19-grain load as having all the accuracy of the lighter charge. However, we intend to continue our trial of the heavier charges in hope of making a find that has speed as well as accuracy.

Number 4759 powder was tried in charges of 14, 13, 12, 11, and 10 grains. The 14-grain charges did not flatten the primers, but so far the groups have not been good with this load. The best accuracy came with the 11- and 12-grain loads, normal groups of 8 or 9 shots in 1½ inches or less at 100 yards having been fired with both charges. The 10-grain load gave a small normal group, but showed some imperfectly burned powder in each cartridge and some flyers on the target. In spite of the supposition that No. 4759 is a direct substitute for No. 80, indications point to the heavier charge of this powder than No. 80.

Number 1204 powder was tried in charges of 18, 17, 16, 15, 14, 13, 12, and 11 grains. The search was started at 13 grains, which gave a normal group at 100 yards slightly under two inches both horizontally and vertically, but with one flyer. The charges were varied both upward and downward from this point without much change in the size of the normal groups until the 17- and 18-grain charges were fired. These were definitely wild, the pressure apparently being too much for the bullet and some lead showed in the bore. The flyers continued to appear in the groups fired with all the charges below 17 grains, and could not always be accounted for by poor holds. If there is an accurate combination of No. 1204 powder with this bullet, it will take further trial to discover it.

Shotgun Smokeless powder, du Pont Bulk, was tried in charges of 11, 10, 9½, 9, and 8½ grains. The 11-grain charge flattened the primers slightly and caused chamber marks on the outside of the cases. The smallest five-shot group at 100 yards fired with any powder yet tried came with nine grains of this powder. It measured 1⅛ inches wide by 1 5/16 inches high. This has been almost equaled in ten-shot groups fired with this same load, and the only group fired with it at 200 yards was under five inches. It may be that with this charge we are very close to the most desirable load for this powder and this bullet in this gun, for 8½ grains have so far not shown equal accuracy and either 9½ or 10 grains seem to blow the groups wild. Bulk Shotgun Smokeless seems to have a very sharply defined critical point in its burning pressure, and in this cartridge it seems to come between nine and ten grains.

Unique powder was tried in charges of 10, 9, 8½, 8, 7½, 7, 6, and 5 grains. The 10-grain charge seemed to be definitely overloaded, but there were no indications of real pressure or of extraction difficulties. An odd state of affairs was observable in the groups we got with Unique. The accuracy with varying powder charges seemed to change very little, even though the weight of powder ran the scale from five to ten grains, by increments of a single grain or less; a change of a full 100 per cent. If our trials are at all reliable, this would indicate considerable flexibility in this powder in cartridges of this capacity. One would be more pleased with this discovery, however, if the accuracy had been better. Groups of three inches at 100 yards were frequent, and only an occasional one smaller than two and one-half inches showed up.

Pistol Powder No. 5 was tried in charges of 9, 8, 7, 6, and 5 grains. No indications of dangerous pressures were observed even with the heavier charges, despite the fact that this powder is fast burning. Accuracy so far has been a little disappointing. Smallest groups were under

two and one-half inches at 100 yards. Apparently this powder is safe in this cartridge in light charges.

Pistol Powder No. 6 was tried in charges of 9, 8, 7, 6, and 5 grains. There were no more indications of pressure than with Pistol Powder No. 5. Lack of time and the approach of winter prevented the trial being carried further with either powder. The smallest ten-shot group at 100 yards was obtained with six grains, it being 1¾ inches wide by 1⅞ inches high. As in the case of Pistol Powder No. 5 our trials were not sufficiently extensive to be determinate, but it may have merit for light loads.

Why should six cartridges loaded with five grains of No. 6 powder shoot a normal group of five into a space 1⅜ inches wide by 1⅝ inches high at 200 yards with one flyer right and low extending the group to better than four inches, when all six holes show that every bullet of the six was tipping or wobbling in every direction? And why should six other cartridges of the same load put five of them into a space seven-eighths inch wide and one-half inch high at 100 yards with a similar flyer, right and low, enlarging the group to 2¼ inches, the bullets in this case also showing the same wobble?

This load apparently has insufficient speed to stabilize this bullet, and the trajectory is like a rainbow but there was something uncanny about the way they followed the grooves. We have shot a lot of loads that looked and sounded more imposing than this combination, but very few of them would keep five shots that close together at either range. This load will be tried further to see if that was merely a freak performance.

Number 4198 powder was tried in charges of 14, 15, and 16 grains. This powder was not obtained until near the end of the outdoor shooting season, consequently only four ten-shot groups were fired with it, all at 100 yards, and these under rather adverse conditions of wind, light, and temperature. The 14-grain load gave a group $1^{13}/_{16}$ inches wide by 1¾ inches high. The other three groups each had one or more flyers, but very tight centers. Since it seems logical to blame their spread onto cold fingers rather than on the ammunition, these will all be tried again when weather permits, and the answer may lie with any one of them.

This search for accurate loads with lead bullets in the Zipper can in no sense be termed exhaustive, being restricted as it was to the spare time available during week ends, with the weather on these occasions often so rainy, windy, or cold that any attempt to test ammunition for accuracy was useless. These limitations held us to a total of only about 900 rounds for the entire summer. About half of the firing was done with Frankford Arsenal primer No. 70. The remainder was done with Remington No. 8½ primers. If there was a difference in the accuracy of these two, our methods failed to disclose it.

No load tried showed any indications of unsafe pressures, and there were no blown, punctured, or leaking primers. Some of the cases used were loaded more than twenty times, and only on the next to the last trip out did the first case crack at the neck. As to the velocities developed by the various loads, there were no chronograph tests. They have been variously estimated all the way from that of a long rifle (with the lightest charges of pistol powder) to better than 2000 feet per second for the stiffer loads. The best accuracy was usually obtained in the mid-zone of pressure and velocity.

A Practice Mortar Shell

FIGHTING IN THE South Pacific, in Tunisia, Sicily, and now in Italy, has shown conclusively that the mortar is second only to the rifle as the most effective of all Infantry weapons. Practice firing with 60 mm. and 81 mm. mortars is, however, usually limited to a very few live rounds per man and this seriously handicaps the production of finished gunners prior to combat experience.

A remedy is supplied by Captain Lewis A. Stuck, Jr., and Lieutenant Richard C. Calais in their development, more than a year ago, of a recoverable mortar shell which can be produced "by any high school Manual Arts Class" at a cost of from fifty to seventy-five cents per shell, which can be fired for three cents, and which gives the same accuracy and training experience as the regular practice shell M50A2 costing many times as much.

The tail assembly contains the fins, the propelling charge chamber and the steel rod which holds the shell together. The fins are made of one-eighth-inch cold-rolled sheet steel and are punched out on a two-ton press from dies which any trade school or high school machine shop can make. The propelling charge chamber of the tail assembly (to which the fins are spot welded or brazed) was made from the breech of old worn-out M1903 rifle barrels. A one half-inch piece of drill rod runs through the center of the shell to absorb shock and to hold the main groups together. This rod is threaded at both ends and screws into the tail assembly and the nose assembly.

The body assembly is composed of two pieces of hardwood that can be turned out on any available wood lathe. The bourrelet is made of a piece of two-inch pipe turned down on a lathe to exact size and properly grooved. The bourrelet forms the gas check when the shell is fired and is secured between the two pieces of the body assembly.

The nose assembly is composed of two pieces, both turned down out of round cold-rolled steel. The part simulating the contact end of the fuse is threaded to receive the forward end of the steel rod going through the center of the shell.

The propelling charge of this shell is an ordinary rifle cartridge with the bullet removed, using the standard powder charge. A wad must be securely tamped down on top of the powder to insure that the powder is completely ignited so there will be uniform results with a given sight setting.

This shell has been thoroughly tested by use in infantry training, with results that prove its efficiency. The fact that it can be manufactured cheaply and with local facilities, with initial costs cut still lower by repeated use, makes it an ideal solution for the problem of training normally faced by State Guard and other Defense units, where meager allotment of practice ammunition prevents adequate mortar training. Working drawings can be furnished by NRA upon application and with proper credentials, at cost of reproduction.

Simplified Small Arms Ballistics

FOR THE SPORTSMAN AND SOLDIER

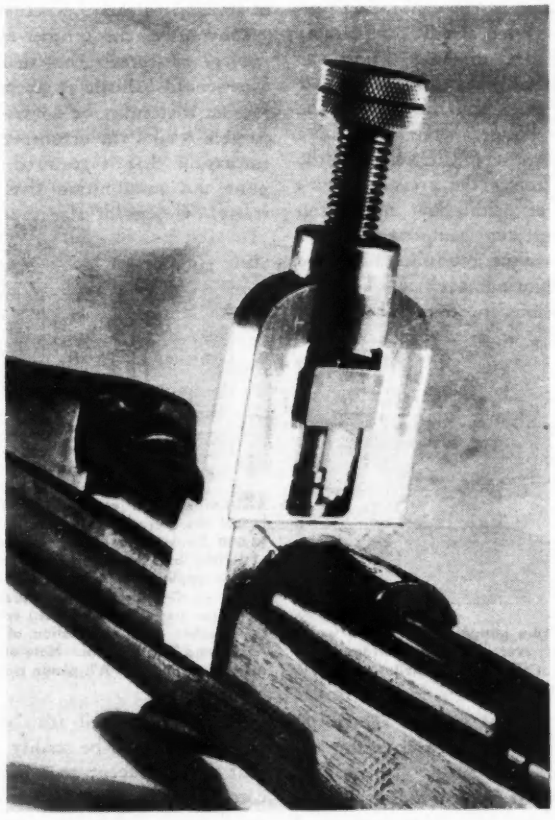
By the OLD COACH

VI. INTERIOR BALLISTICS

Measuring Pressures

HOW DOES THE BALLISTIC ENGINEER go about the task of actually *measuring* the extremely high pressures which are developed so quickly and under such extremes of temperature during the "Terrific Instant" of the discharge of the gun? He has the choice of two methods. The oldest and most commonly used is the "crusher" system. The newer, and more complicated, is the "electric strain gauge" system, based on the Piezo quartz crystal system.

The "crusher"-type pressure gauges are mechanical devices. They derive their common name from the fact that the heart of the gauge is a cylinder of metal which is compressed, i.e., "crushed," by a piston actuated by the expanding powder gases in the chamber of the gun. To construct the crusher-type gauge a hole is drilled through the wall of the chamber of the gun. A very carefully fitted piston is placed in this hole and a strong arbor is firmly fastened around the outside of the gun over the piston. The arbor carries an adjustable anvil in the form of a setscrew positioned directly above the piston. The crusher cylinders or spheres are the other items of equipment. For testing medium pressures and also high pressures the cylinders are made of carefully annealed copper. For low pressures lead crushers are used. In some tests involving low pressures spherical crushers have come into use. Gauges built to use these spherical crushers are commonly referred to as "Ball gauges."



Crusher-type pressure gauge as it appears on a rifle.

In use the crusher is placed on the head of the piston and the setscrew is turned down until the anvil is firmly set against the top of the crusher. When the gun is fired the pressure from inside the chamber against the underside of the piston is transmitted through the piston to the crusher. Since the crusher is firmly held on its topside by the anvil the moving piston on the underside compresses the metal in the crusher. The amount of compression, i.e., the amount that the cylinder is shortened, furnishes a measure of the amount of pressure exerted on the piston by expanding gases in the gun chamber.

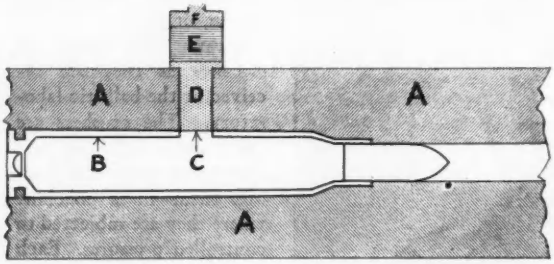
When tests are made with thick-walled, high-pressure metallic cartridges a hole of standard diameter is drilled through the wall of the cartridge case and closed with a thin piece of paper or collodion so as to retain the powder. In loading the rifle this hole is carefully placed directly under the pressure piston. This method permits the pressure inside the cartridge case to operate directly on the piston instead of operating through the expansion of the cartridge case—which would introduce complicating factors because of the thickness of the walls of the high-pressure cases.

Obviously, the degree of shortening in crushers under pressure will depend on the related degree of softness of the metal from which the cylinders or spheres are made. Extreme care is used in the manufacture of the crushers to assure uniformity. Nevertheless, it is necessary to calibrate each batch of crushers as they are received at the ballistic laboratory. The crushers are calibrated by selecting cylinders at random and placing them in a machine where they are subjected to controlled pressures. Each cylinder (or sphere) is carefully measured, then placed in the pressure machine. Controlled pressure is applied to whatever number of pounds per square inch is desired by the ballistic engineer. This may be 10,000 pounds per square inch. The crusher is then removed and measured to determine how much it has been shortened by the application of the stated pressure. The exact measurement is written on a chart known as the "tarage table." Another crusher is then put into the pressure machine and pressure applied at the rate of perhaps 15,000 pounds per square inch. The measurements of this crusher are noted on the tarage table. The process is continued until the tarage table provides a record of the compression which may be expected over the complete range of pressures that this particular lot of crushers will encounter in actual test firing. It is important to note that a new tarage table must be prepared for each new lot of

crushers. Because the malleableness of the metal may change with age, crushers which have not been used in tests within a year after the tarage table has been prepared are returned to the mill to be reworked.

At first glance it would appear that the measurement of pressures by the crusher system is simple enough for almost anyone to undertake. Put the sample crusher in a machine, apply pressure, measure the crusher, and repeat until a complete tarage table has been prepared; then put a crusher in the pressure gauge, fire the piece, remove the crusher, measure it, compare with the tarage table—and there is the pressure all figured out!

Actually it isn't nearly as simple as that. When a gun is fired the pressure is developed with tremendous rapidity. The piston of the pressure gauge is given exactly the same kind of "kick" as that exerted on the base of a bullet. In other words the piston is not just pushed up against the bottom of the crusher, slowly compressing it the way the crusher is compressed in the calibrating machine. In the pressure gun the piston attains considerable velocity. It is like a small bullet smashing against the bottom of the crusher. Frictional heat in the crusher reaches a higher temperature than was the case in the calibrating machine—and the hotter metal flows more readily. At the same time, because of its velocity, the piston will continue to travel *after* the pressure begins to drop. These two factors of metal flow and piston velocity combine to show greater compression in a crusher fired in a test gun than in a crusher subjected to the same pressure in a calibrating machine. The differential increases as the pressures increase. The higher



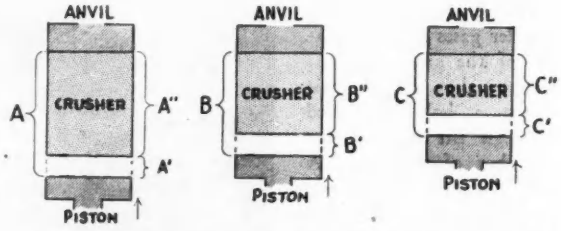
Cross section of a crusher-type pressure gauge. A: Chamber walls. B: Cartridge wall. C: Gas check over vent in cartridge case. D: Pressure Piston. E: Crusher. F: Anvil.

the pressures go in the test gun the further the piston will travel in compressing the crusher and the greater the velocity the piston will attain.

In order to reduce the margin of error in indicated pressures caused by increasing pressures on the *uncompressed* crushers it is now common practice to *pre-compress* crushers which are to be used in testing high-pressure cartridges. When pre-compressed crushers are used the piston moves very little, if at all, until the pressure in the chamber has built up to the number of pounds per square inch used in pre-compressing the cylinder. Piston travel and piston velocity are thereby held to normal limits. For instance a crusher may be pre-compressed under a pressure of 30,000 pounds per square inch. If that crusher is then used in a test where the pressure developed in the gun is 45,000 pounds per square inch the pressure piston will not move appreciably until the chamber pressure has reached 30,000 pounds. It will then move upward against the crusher until the pressure reaches 45,000 pounds. The piston moves only while 15,000 pounds of additional pressure is being built up in the gun! The time that it moves, the length of its travel, and the velocity it attains will be *approximately* the same as that of a piston pressing against an uncompressed crusher while the chamber pressure was building up from 0.0 pounds to 15,000 pounds per square inch. This is not absolutely true but it is near enough to actuality to satisfy the practical requirements of the experienced ballistic engineer.

It will be evident that if a cartridge was tested with uncompressed crushers, then tested with pre-compressed crushers the *indicated* pressures would not be the same. Differences between *indicated* pressures and *true* pressures may be caused by a number of factors the principal of which are: 1. Malleableness of the metal used for manufacture of crushers. 2. Diameter of crushers. 3. Diameter of pressure pistons. 4. Diameter of pressure vent in cartridge case. 5. Amount of pre-compression of crushers in relation to pressure actually developed.

Obviously, the crusher-type pressure gauge indicates *relative* pressures rather than *true* pressures. As used by experienced ballistic engineers who are familiar with the factors that must be controlled in order to obtain comparable results the crusher-type gauges supply all the information that is required for the purpose of building guns and ammunition that will operate efficiently and safely. Gauges of this type have provided the basis for



A—Uncompressed crusher. A'—Piston travel (compression) under 15,000 lbs. per sq. in. pressure. A''—Crusher after application of 15,000 lbs. pressure. ——B—Crusher pre-compressed with pressure of 15,000 lbs. B'—Piston travel (compression) when 30,000 lbs. pressure is applied. B''—Crusher after application of 30,000 lbs. pressure. ——C—Crusher pre-compressed with pressure of 30,000 lbs. C'—Piston travel (compression) when 45,000 lbs. pressure is applied C''—Crusher after application of 45,000 lbs. pressure. (Note that A', B', and C' are equal. Note also that if 45,000 lbs. pressure were applied to crusher "A", piston travel would equal A' plus B' plus C'.)

practically all small arms development up to this time. However, it will be readily apparent from this discussion that no one except an experienced ballistic engineer with complete laboratory facilities is in any position to discuss intelligently "chamber pressures" in modern arms. Unless the amateur ballistician knows *all* the factors that were involved in any particular test he had better not "go out on a limb" on the basis of such incomplete reports as he has seen or heard.

The "electric strain gauge" type of pressure gauge is definitely a laboratory instrument. These gauges employ the Piezo quartz crystal principle of operation. Piezo determined that when pressure was applied to quartz crystals in a certain direction with respect to the "grain" in the crystal an electromotive force is developed in direct proportion to the amount of force applied. The "electric strain" or "Piezo" gauges therefore consist of alternate layers of quartz wafers and of metal plates. The quartz must be very carefully cut so that the flat surface of the

wafer will lie at the correct angle with reference to the grain. Both quartz and metal wafers must also be carefully ground to perfectly flat surfaces in order that the rapid application of heavy pressures will result in even distribution of the load throughout the stack and uniformly over the surface of each crystal so as to avoid the stack fracturing any of the quartz wafers. The metal plates are wired so as to accumulate the total electromotive impulse from the entire stack of quartz wafers and transmit the impulse to the recording instruments. A pressure piston is used to transmit the pressure from inside the chamber of the gun to the stack of quartz wafers in the gauge, much as in the case of the crusher gauge. The travel of the pressure piston in the electric-strain gauge is negligible so that piston velocity is practically eliminated as a possible source of inaccurate readings.

Because electromotive impulse in the Piezo gauge increases as the pressure increases the pressure is recorded as an ascending and descending curve. The ballistic engineer can read both the maximum pressure and the *time* required to build up to that maximum.

Since the electromotive impulse built up in the quartz crystals is a constant factor, without regard to the time interval over which the pressure is applied, it is possible to calibrate the electric-strain gauge much more accurately than crushers. When properly calibrated and handled by specially trained technicians the indicated pressures shown by the Piezo gauge are closer to true pressures than in any other type of gauge so far developed. The weakness of the electric-strain gauges lies in the fact that they must be handled by crews who are specially trained and thoroughly familiar with the technical difficulties which may be encountered in using the gauges. Constant calibration by experienced technicians is essential. The gauges are expensive to construct. Eventually the "bugs" will no doubt be eliminated from the electric-strain gauges but for the time being the rugged, simple-to-operate, crusher gauges will continue to be most widely used by our ballistic engineers. Whole volumes of comparative figures have been accumulated based on crusher-gauge tests over several generations and with every powder and cartridge now known. But, remember, only the ballistic laboratory record indicates the actual method of testing and the actual components used—so do not be misled by the arguments of the amateur ballistician who knows all there is to know about pressures because he got some information out of one ammunition catalogue or some "dope" on one series of tests!

It is theoretically possible to *compute* pressures by various mathematical formulae. The pressures so calculated are, however, never the same as those indicated by pressure-gauge tests. The mathematically computed pressures generally *exceed* the actual pressures as indicated by the pressure gauges. This is because in actual firing heat is rapidly dissipated beginning the instant the primer explodes. Heat is lost to the cartridge case, to the bullet, to the walls of the chamber, to the face of the breechblock, etc. While the amount of heat released by the primer and powder can be computed there is no way of accurately estimating the amount of heat loss. Since the heat available *for the expansion of the gases* is the factor controlling the pressure the impossibility of estimating the heat *losses* renders it impossible to calculate accurately actual chamber pressures. As has so often been said in this series of articles the experienced ballistician depends much more heavily on actual tests and empirical formulae than on calculations based on theory.

Utilizing Pressure Curves

When a series of tests have been run and the results plotted on a graph chart a "curve" can be established from the point set by the minimum charge to the point set by the maximum charge tested. Intermediate charges anywhere *between* the charges plotted from actual tests may be interpolated on the curve and the indicated pressures (as shown by the curve) will be quite close to actuality. When using an established curve in this manner it is essential to be guided by the following points:

1. Intermediate points *between* two charges actually tested may be safely interpolated but *the curve must not be extended above* the highest charge actually tested.

2. The components used with the interpolated charge *must be identical* with the components used in the tests on which the curve is based. Figure VI, page 34, December issue, shows plainly what can happen to pressure even when all components are the same except that there is a slight difference in the *design* of the bullet.

Pressures and Powder "Tolerance"

Some men are "easy-going," tolerant. Others are "touchy" folk who can't stand much pressure. Usually the tolerant lad will stand for a lot but when he *does* get riled things are likely to fly. Smokeless powder has these same characteristics. Some powder is adapted to a very limited range of cartridges and can be safely used only within a limited range of loads. Other powders are quite "tolerant" and have a wide field of usefulness. *Every* powder, however, like every human being, has its limit of tolerance. When a powder is being used within its limits of tolerance the groups of test shots will show relatively little pressure variation from shot to shot. As the pressures are increased signs of "irritation" begin to show in the form of an occasional shot which sends its pressure upward above the average curve. The number of such "wild" shots and the height to which they skyrocket their pressures above the average increase rapidly as the powder reaches the upper limit of its tolerance. This explains why the amateur ballistician may load fifty rounds of high-velocity, high-pressure ammunition and safely fire forty-nine of them, then have the fiftieth round blow up his gun. The pressure of all forty-nine rounds was sliding up and down near the safety limit. Any one of those shots *might* have gone out the top of the pressure curve. Finally one of them did! There is no standard point at which the tolerance of smokeless powder begins to be strained. Each powder, like each man, has its own characteristics as to "tolerance." The "tolerance" of a powder depends on many factors most of which are known only to the manufacturer and cannot be determined by visual examination. This is another reason for not trying to figure out a safe load by projecting a charge-and-pressure curve above the highest charge actually tested. It also explains why the powder manufacturer may insist on your limiting the use of a given powder to certain cartridges and to certain charges even though you can see no good reason for not experimenting with some other cartridge or load.

(To be continued)

BRIDGEPORT, CONN., JAN. 1944

Rifle Remg

Possibles and Impossibles

by **FRANK J. KAHRS**

A British correspondent of mine wrote me the other day and a very interesting letter it was. He told me about his activities since he was recalled for active service by the Regular Army Reserve in the latter part of '39 (when he had reached the ripe old age of 50) and appointed shooting instructor.

In that capacity many thousands of men went through his hands, among them more than 5,000 officers and men of the first U. S. A. troops to arrive over there—and he looks back on this activity with very real pleasure. Not one of these troops had been in the Army for more than a few weeks—as they were all skilled technicians, not professional soldiers —yet he says that he found them to be good shots and that they soon reached a really high standard of shooting.

He writes that out of 5,000 Englishmen it would be hard to find five per cent who had any knowledge of the rifle at all, but with the U. S. A. boys he found that a much higher percentage had done some shooting of one type or another. He thought that this was due to the fact that in the United States shooting is fostered in many ways, while over there before the war, it was practically a crime to own a firearm.

Referring back to the keenness of the U. S. A. boys, he says: "Give me a man who is keen on shooting. I don't care if his interest is in rifles, shotguns or revolvers; although he may lack all the attributes of a champion shot, I know that after a little training and practice, he will be O. K. in an emergency." He went on to say that for years he had tried to foster rifle shooting over there, and he prays that never again will they go back to their pre-war attitude toward the man who wants to own and shoot a rifle.

It's nice to hear from some of our shooting friends abroad, and we welcome their comments for the column. Incidentally, this correspondent I speak of is a member of the N. R. A. of England, The Society of Miniature Rifle Clubs, and an honorary member of our own N. R. A. Quite a boy, I'd say, and very interesting.

* * *

We often hear of improvised ways and means of making the shooter

more comfortable on the firing line and so improving his shooting. Usually these come to our attention by observation on the firing line. The other day, one of our readers wrote in, and, among other things, told us that he had had trouble with his right elbow slipping in the prone position. (Who hasn't?) So, one day while looking around in a hardware store, he came across a pair of soles that one is supposed to cement to worn shoes.

He marked the leather pad on his coat sleeve at the place where it touches the ground, and cut out a good-sized circle from the sole and cemented it to the elbow pad. The elbow no longer slips.

He states there are various kinds of these soles to be found in the stores, so you have to use your own judgment in selecting the right one. The sole he used has a center section made up of about ⅜" squares which are filled with ordinary checkering, and the sole has a sort of "sticky" feeling which cannot be mistaken. He also states that you can use a piece cut from certain kinds of the boots that are used inside old tires. Not a bad idea, we'd say!

* * *

And here's a letter from a chap in California who likes to shoot at 200 yards but of course has trouble spotting them. He solves the problem by pasting a white bull's-eye over the 10-ring—and, curiously enough, the group that he sent in had 10 shots on the 4" paper. He uses a 19X spotting scope.

Of course, this is only good for the 10-ring, and as long as you stay there, you will know where your shots are going. I have seen the boys at Fort Worth and other spots solve this problem by hanging a white sheet behind the target. That sure brings them out, too.

Congratulations

ON ANOTHER GREAT YEAR!

Despite serious handicaps in the war yea 19 American riflemen have added another glowi apt to their great history of service to their cou

American riflemen have unstintingly contri the time and experience in organizing Approved S Arr Firing Schools for the benefit of young men le f induction into the armed services. Too, they orga ized rifle and pistol schools for training auxil poli and guards in industrial plants.

American riflemen have freely contributed tim and experience to training sorely needed qued i structors who, in turn, could teach groups of ow

And American riflemen have denied themes th pleasures of practice and match shooting so the could contribute their ammunition to pre-indu an other practical rifle training.

All of that reflects the true American spi d w want to congratulate every one who has ha par in it .

May 1944 be an even greater year—yes, a appy one! *Remington Arms Company, Inc., Bport Conn.*

Remington DUPONT News

A PAPER FOR PEOPLE WHO SHOOT

The Soldier and the 10-minute "break". . . .

After the command, "Fall out to the right of the road," the Soldier dropped down on the grass, eased his pack, unscrewed the top of his canteen, took a long swig.

"Water tastes good right now, don't it?" somebody said.

"Yeah, I suppose," said the Soldier. He lit a cigarette. "But for water to really wet a whistle right, gimme a certain old tin dipper I know."

"A which?"

"An old tin dipper. When I was home," the Soldier went on, "this time of year I'd always go hunting with my dog Pete and maybe a couple of the fellows. And most times we'd go out to Harry Olsen's farm—swell hunting country. Pheasants, rabbits, partridge . . ."

"What's about the water?"

"Well, Harry has an old tin dipper hanging on the pump. And when we came back from hunting all morning, thirsty as a herd of circus elephants, we'd head for that old dipper. And, boy!—water out of that dipper always tasted better than anywhere else. I wish I was there right now. . . . D'you suppose maybe next year . . .?"

Remington's part in speeding peace is, of course, supplying a lot of military arms and ammunition fast. . . .

1. ***Since Pearl Harbor,*** *Remington has produced enough military small arms ammunition to fire more than 500 times at every Axis soldier.*
2. ***Remington has developed,*** *and is now producing in great quantity, an amazing new incendiary bullet which —unlike ordinary bullets—can penetrate and explode even armored airplane gasoline tanks.*

Sometime—soon, we hope—Remington will be serving its sportsmen friends again with shotguns and rifles, Remington Express shells, Remington Hi-Speed .22's with Kleanbore priming, and Remington big game cartridges with Core-Lokt bullets. Remington Arms Company, Inc., Bridgeport, Conn.

"Express," "Palma," "Kleanbore," "Hi-Speed," and "Rangemaster" are Reg. U. S. Pat. Off.; "Core-Lokt" is a trade mark of Remington Arms Company, Inc.

SPEED THE VICTORY!
BUY MORE WAR BONDS!

Remington "Rangemaster" Model 37 bolt action target rifle and Palma Kleanbore .22's.

Remington
DUPONT

Reloading .30-'06 For Club Use

(*Continued from page* 20)

denotes the ten-shot groups of these 99-3 loads. Appreciable tipping of these bullets was evident at 100 yards, but disappeared at 200 and 300 yards.

About this time we cast several hundred bullets from another Hensley and Gibbs mould, an unmarked special made solely for experimental purposes and called 315-3 by the owner. The first figures were the approximate bullet diameter while the last figure was added to show that there had been three alterations from the original shape.

It seemed desirable to compare directly the last two bullet types, so about twenty-five of the 99-3 bullets were sized .312 inch and loaded ahead of 28.1 grains, and another twenty-five ahead of 29.7 grains, of HiVel 2. An equal number of 315-3 bullets were sized .316 inch and loaded with 28.1 grains of HiVel 2. Kampen gas checks and Ipco lubricant were used on all bullets. The three loads were then tested in five-shot groups at ranges of 200 and 300 yards. The 315-3 gave satisfactory groups with an extreme spread of three or four minutes of angle, but both 99-3 loads spread from eight minutes up to misses on the standard Army A target.

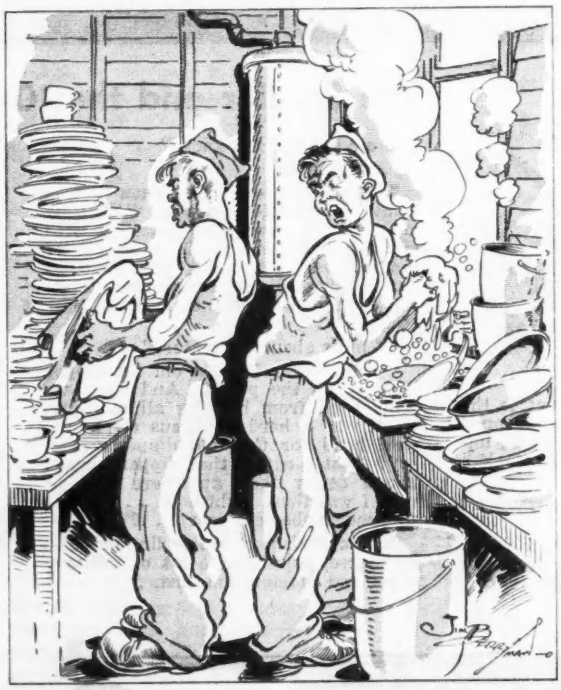
All further testing was confined to the 315-3 bullets. Sizing diameters of .316 inch and .312 inch were employed in case necks expanded to .313 inch and .3095 inch respectively, together with powder charges of 23.2 to 29.7 grains of HiVel 2. Both Kampen and MRC gas checks were tried, as were Ipco and our homemade lubricant. Nearly all of those loads performed well and the lumped data for a total of fifty groups which ranged through the stated variations were composed in Curve No. 4. During that period we finally established a standard reload of 26.5 grains of HiVel 2 and the 315-3 bullet sized .312 inch. Our own bullet lubricant worked well and we continued to use it. Kampen gas checks were found necessary due to the 315-3 bullet design. To see how our standard load performed, all groups fired with it at 200 and 300 yards were sorted from the total test groups. The 200-yard data evolved into Curve No. 5 while Curve No. 6 was derived from the 300-yard groups.

It might be well to explain why the 315-3 bullet required Kampen gas checks. During our tests, after progressing almost through the services without using the MRC gas checks, we loaded some cartridges that varied in four ways (powder charge, bullet diameter, gas checks, and lubricant). Only the powder charge had been used in any of our previous tests, but about 400 rounds were assembled with the utmost confidence in their accuracy. They were issued for our next match and after about five shots some members complained of erratic results. A few rifles shot normal scores without evidence of trouble, but most rifles showed a lead wash inside the barrel at the muzzle. After some discussion it was decided that the trouble was being caused by the deep-cup MRC gas checks. The rim of those gas checks touched the rear driving band before the cup bottom contacted the base of the 315-3 bullet. Wishing to check our gas-check theory, during the following week a member fitted a few 315-3 bullets with some Kampen and some MRC gas checks. Half of the bullets with MRC gas checks were sized .314 inch while all other bullets were sized .312 inch. Those of .314 inch diameter were loaded with 28.1 grains to duplicate the unsatisfactory ammunition mentioned, but the .312 inch bullets were given a charge of 26.5 grains of HiVel 2. Homemade lubricant was used on all bullets. Groups fired at 100 yards gave the following measurements:

Gas Checks	*Bullet Diameter*	*Horizontal*	*Vertical*	*Extreme Spread*	*Shots*
Kampen.....	.312 inch	2.3	3.3	3.3	10
MRC.....	.312 inch	5.6	5.3	5.9	6
MRC.....	.312 inch	5.0	4.5	5.5	15
MRC.....	.314 inch	10.0	5.3	10.1	10

Those groups confirmed our belief that Kampen gas checks were needed for the 315-3 bullets, so no further attempt was made to use our deep cup gas checks. Our standard reloads, developed about this time, were issued for the next several matches, and all users were entirely satisfied with their scores.

The remaining Curves No. 7 and No. 8 were based upon groups fired by the NRA Technical Division, in their rifles and on their range, with standard reload cartridges supplied by Miami Rifle Club. Their group results will be discussed later.



"Me—Number One guy in my NRA pre-induction training class—and look at me now!"

Conclusions:

There is no reason to feel restricted to the particular components used in our tests. We merely employed such materials as were available or readily obtainable.

In our experience, the most critical point was the fitting of the gas check onto the bullet. We proved definitely to our own satisfaction that for accuracy at mid-range velocity of 1800 to 2000 f.s. the gas check shank of a bullet must be long enough to provide at least $\frac{1}{64}$ inch clearance between the rim of the full-seated gas check and the back edge of the rear driving band on the bullet. Otherwise, in our opinion, as the driving band is swaged to the rear

upon entering the barrel the powder gases force the rim into the driving band to cut out a thin flange of bullet metal. This flange is wedged against the barrel with such extreme pressure that, despite normally adequate lubrication, bore leading is produced and erratic grouping results. Inaccuracy, when experienced in our tests, almost invariably developed in the first ten shots.

We still have on hand our special deep-cup gas checks, awaiting time to test a bullet with a suitable gas-check shank. Incidentally, most of the Squibb type bullets such as those by Ideal, B. and M., and Hensley and Gibbs do have a long shank. We believe that most solid bullets of more than 140 grains, and with a proper shank for the gas check used, would justify test groups.

No trials were made with any alloy other than the 93-2-5 lead-tin-antimony mixture first used.

Only slight difference in accuracy was noted among the several bullet sizing diameters tried, so we used the largest which still permitted easy chambering in all rifles. Both Ipco and our home-mixed lubricants proved satisfactory.

HiVel 2 powder was used for the majority of test loads. To anyone interested in using a single powder for both midrange and full charges, either Hercules Lightning or HiVel 2 is suggested. Each bulks well in medium charges and are easily ignited by commercial NCNM primers. Our standard charge of 26.5 grains of HiVel 2 was tested thoroughly at ranges of 100 to 500 yards inclusive, and consistent accuracy was obtained.

Records should be kept of all loads and groups, no matter how poor the results may be. More can be learned about reloading problems by studying detailed results of a poor load until you find definitely how to improve it than from assembly of a dozen different highly accurate loads that require no study or thought.

TABLE OF GROUP DETAILS

Curve	*Bullet*		*Charge*	*Shots*	*Groups*	
No.	*No.*	*Dia.*	*Gr.*	*No.*	*No.*	*Yd.*
1	S-99	.316	21.1*	5	5	100
			25.0**		2	200
2	99-3	.3095 or .311	25.1	5	1	100
			26.5		8	200
					2	300
3	99-3	.3095 or .311	25.1	10	6	100
			26.5		11	200
4	315-3	.312 or .316	23.2	5	2	100
			26.5		31	200
			28.1		14	300
			29.7		3	500
5	315-3	.312	26.5	5	16	200
6	315-3	.312	26.5	5	8	300
NRA Test Results						
7	315-3	.312	26.5	10	2	100
					2	200
8	315-3	.312	26.5	10	1	100
					2	200
					2	300

*=#2400 powder. **=#4198. All others, HiVel #2. Kampen gas checks and Remington #9½ NC NM primers were used throughout.

Dope Bag Report:

On February 23, 1943, we fired some of the lead-alloy handloads mentioned. As shipped by the Miami Rifle Club, Inc., these were in Frankford Arsenal cases, and the labels said: R.A. No. 9½ primers, 26.5 grains HiVel No. 2, and 180-grain 315-3 Hensley bullets in .312-inch diameter. We tried them from bench rest in our Haemmerli - Martini heavy barrel .30-'06 test rifle with 15X Lyman Super-Targetspot scope sight, and in Al Barr's Model 1917 Sporter with 330 Weaver scope sight which has a post reticule. The air was cool and moist and a moderate, but variable diagonal wind was blowing.

In the Martini Bull Gun we had excellent lead-alloy accuracy. The first ten shots at 100 yards spread 2.14 inches, but nine were in less than 1¾ inches. At the other ranges eleven-shot groups were fired, the final ten of each string invariably showing a smaller spread, with each first shot deleted. These ran 4.62 and 2.60 inches at 200 yards and 6.24 and 8.81 inches per ten shots at 300 yards. The eleven-shot groups were: 6.27 and 4.14 inches at 200 yards and 9.20 and 9.80 inches at 300 yards. The impact centers were: 3.50 inches low and 2.80 left at 200 yards and 29 inches low and 6.50 left at 300. In the Model 1917 Sporter the ten-shot groups were: 3.58 and 2.67 inches at 100 yards and 5.34 inches at 200 yards. At the latter range an eleven-shot group, of 6.27 inches, was also fired. Its last ten shots spread only 4.70 inches.

Short Guns For Speed

(*Continued from page* 21)

longer burning time. But the short, light guns are fitted only for rather light loads, so a certain length of barrel is essential. Given the length required to allow complete combustion, expanding gases increase the shot velocity so long as the charge is confined in the barrel; which means that longer barrels allow more time for acceleration and so give greater velocity.

With standard loads (say three drams and one and one-eighth ounces, 12 bore) the loss in velocity as between a thirty- and a twenty-four-inch barrel is about one hundred feet. It might be less; is not likely to be more.

How much harm does this loss in velocity do? Not much, at short ranges. At worst, the shot will reach the mark at considerably higher velocity at thirty yards than the most powerful loads will show at forty yards, even with longer barrels. Certain it is that, for short-range work, velocities will be high enough, even with barrels as short as twenty-four inches.

Anyway, why try to get a thousand feet of instrumental velocity out of a short-barreled gun? It could be done, but we would have to pay too dearly for it—just as we pay too dearly when we get a 3,000-foot-second velocity out of a twenty-two-inch barreled rifle, when we could get that velocity with less powder and less recoil by using a twenty-eight-inch barrel.

In other words, if you want what the short barrels give, they will deliver. But don't buy a tool specialized for one job and expect it to do another. It won't!

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

OUR NOVEMBER COVER

Oakley, Illinois.

Editor:

You have my hearty thanks for the pleasure I got out of the November issue; especially the beautiful cover. That picture, recalling peace-time scenes, should make it easier for thousands of your readers to endure the duration.

I liked Monroe Goode's article, "Mr. Fix-it's Field Kit," so well that I expect to make up a kit and become a Mr. Fix-it forthwith. Also, how about more short articles along the line of "It Ain't the Gun; It's Me," by James Nogle? There is a lot of us who get a bang out of reading about the little discussed weapons that have proved reliable as work guns in the hands of outdoorsmen.

Robert S. Rowe.

CORN—OR CORNY?

Washington, Pennsylvania.

Editor:

Your comments on the quality of the picture on the cover of the (November) AMERICAN RIFLEMAN prompted me to look it over and as an ex-farmer I think I am qualified to pass judgment on it.

When corn is husked and fodder tied up and put in bundles it shows *bundles*. There is not a sign of a bundle in the picture.

From the stalks left standing in the field I'd say there are at least ten times as many as there should be. Corn planted that thick would never amount to anything.

I'll say it is *far* from being a "masterpiece."

A. B. Cooper.

We still think it's a masterpiece. Reader Cooper evidently failed to note that the picture is a photograph (a kodachrome), not a painting in which the artist might have erred. Ex-farmer Cooper failed to note, too, that the "corn" is not corn at all. It is one of the many varieties of kaffir or cane. Such crops are planted thicker than corn, and the fodder is not necessarily bundled.—ED.

A RENEWAL

San Jose, California.

Editor:

Please renew my membership. It expired in 1942 when I saw induction in the offing, but now that I am in the service I find that I miss the RIFLEMAN and its news of the Association, its clubs, and their matches.

I was an active member and competitive shooter in what I think is one of the best clubs on the West Coast: the Glendale Rifle and Revolver Club. My greetings to the Club, to its perennial Secretary-Treasurer, Jack Cornell, and to Jack and Wally Robbins.

Will you please ask Otto C. Markman to write to me, care my wife, Margaret Boner Ross, 102 South 24th Street, San Jose?

Ph. M. Edward T. Ross, U.S.N.R.

THE TAUGHT AND THE UNTAUGHT

Los Angeles, California.

Editor:

Both my brother and I were born in Minnesota where, in those days, we could step out in our back yard to shoot small game. We noticed then that it was the kids who were not taught to use firearms who had the accidents with firearms and we determined that my nephews, even though they were city raised, would be taught. My brother's boy got a rifle of his own when he was fourteen. We never got to give him actual range practice with a pistol, but I did give him considerable instruction on handgun shooting and, when he came to visit me, he did a lot of dry shooting. He is now a Naval Aviation Cadet and I received a letter from him recently of which I'm very proud and which I think is worth passing along to you.

"Remember when you taught me to hold a pistol and sight with both eyes open and how to squeeze? Well, it paid big dividends the other day. They took us out to the pistol range and let us practice with .22's on .45 frames. The first time I shot I got six out of ten in the black. This was at twenty yards, using a three-inch bull. The Ordnance men said this was pretty good considering that I had never fired a pistol before."

Robert A. Sjoberg.

STILL INTERESTING

Chicago, Illinois.

Editor:

Referring to Sergeant Moore's request, in the November RIFLEMAN for "Less G. I."—some of us are too old to be of any value to the armed forces and have to be content with what we can find to read regarding late developments in arms. Newspaper information on that subject is scant and unsatisfying. I have gleaned more information on the functions of our modern army from the RIFLEMAN than from any other source to date. Keep up the good work! "G. I." is interesting to us who are now "too old!"

W. F. Jacob.

THANK YOU

Fort Lewis, Washington.

Editor:

As you will note, I am in an Ordnance Heavy Maintenance Company, doing just the thing I like most: working on guns. I sincerely believe that the fine articles in THE RIFLEMAN contributed heavily to getting me into the small arms work I enjoy, and in getting me the rating of Sergeant-technician within four months of my enlistment.

I was also fortunate to make the highest score in the company on the rifle range and to qualify as Expert, due almost exclusively to NRA instruction in marksmanship.

It is of great satisfaction to me that the big stack of RIFLEMEN back numbers, read and re-read, and those hours spent shooting and fussing with guns, are now enabling me to do my bit a bit better. Your organization is to be commended for its fine educational work, splendid magazine, and intelligent support of firearms enthusiasts.

Sergeant Charles B. Spalding.

HOW WE GET THAT WAY

Waynesboro, Pennsylvania.

Editor:

I want you to know that I appreciate my election to Life Membership. This has been an ambition of mine for some time.

I first learned of the existence of NRA in 1905 from an Ideal Manufacturing Company catalogue. It was mentioned as "a third line of national defense." It stuck in my mind. About 1920, two copies of the RIFLEMAN (or perhaps it was then called "Arms and the Man") fell into my hands and I decided to join. I became a member in 1921 or 1922 and have been one ever since.

I have been interested in the National Matches at Camp Perry ever since Captain Casey won his big match. Then, in 1929, the matches became personal, for in that year I went to Perry and saw for myself what it was like and became a booster. I was there also in 1930, '31, '35, and '38. Was "in the money" once in the Navy Match with a score of 89. My Perry medals are only Re-entry and Skiddo medals, and one 45.50 bar at 1000 yards, the highest score I ever got at that range.

However, my shooting has given me many pleasant hours and many friends. Best of all, some of the youngsters I interested in shooting are now able to take care of themselves in the Pacific Islands, in Italy, or wherever they are sent.

Maybe this explains how members get *that way*. I'm still a tyro, but I still get a kick out of shooting.

Joseph L. Oyler.

YOUNGEST MEMBER

New York, New York.

Editor:

My son has expressed a desire to be enrolled as a Junior Member of NRA. Frankly, I had a bit of difficulty understanding his request as he was born at 1 P.M. today; but I am sure I heard him say that his aunt, Eleanor Dunn, would get him a membership if I couldn't!

He says I ought to be proud of being the father of the youngest NRA member and he wants you to send his membership card to him in my care, as he plans to reside with me for the present.

Arthur Dunn.

The junior Mr. Dunn's membership is duly recorded. 1963 Camp Perry aspirants are hereby warned.—ED.

SATISFIED ADVERTISER

Cincinnati, Ohio.

Editor:

Thank you for your wonderful method of disposing of "for sale" material! I put my ad in your "Arms Chest" and in less than a week after publication had sold every gun offered. I received seventy-five letters enclosing money orders which I had to return.

I received no complaint on any gun sold. Wish I had a hundred more to offer!

William G. Rose.

CALIFORNIA RIFLE

Twenty-nine marksmen from the San Francisco-Oakland-Richmond Bay area competed in the rifle matches held on the Richmond Rifle and Pistol Club range. Judge Hilliard Comstock, of Santa Rosa, copped the top honors, shooting 200 x 200 in the first event, a twenty-shot 50-yard iron-sights match, and building that into a 994 aggregate.

Second place was won by Chris Peterson, of the home club, with 988. Third place went to Bud Wickersham, of the San Francisco Rifle Club, with 987.

Due to conditions affecting ammunition and travel, this will be the last match sponsored by the Bay District League for the duration. But Bay District smallbore shooters are doing their best to hasten the day when such conditions will no longer exist and are looking forward to another Far Western Smallbore Regional soon thereafter.

KENTUCKY PISTOL

Sergeant H. L. Benner, of Fort Knox, continued his winning streak by taking every match at the fifth annual shoot of the Louisville Rifle and Revolver Club. Dr. F. F. Sowers, Fairmont, West Virginia, took second place in the Masters' class.

Outstanding in the Expert class were Joe R. Anderson, Jr., Louisville, and Raymond Wright, New Albany, Indiana. They shared four places apiece, only one point separating them in the aggregate.

John J. Richardson, Jr., Nicholasville, Kentucky, nosed out Norris I. Garvey, Jeffersonville, Indiana, by one point to capture Sharpshooter honors. Ralph Smoot, Stearns, Kentucky, led the Marksman class.

The tournament was conducted in the Jefferson County Armory. It was an outstanding success and the Club expects to stage another meeting next year.

PLANT GUARD PISTOLMEN

It took a shoot-off to decide the championship of the Hercules Powder Company's pistol tournament for guards. In the shoot-off, Ernest W. Houck, New River Ordnance Plant sharpshooter, scored 99 on each of the Slow, Timed, and Rapid Fire targets for a winning total of 297, topping Joseph McCullough, of Badger Ordnance Works, by three points. Houck and McCullough tied in the regular tournament with identical scores, each shooting 99-98-96 for 293 totals.

Matches are held between Hercules plant guard teams each month and the improvement in marksmanship as a result of this competition has been very marked. These guards are charged with the important duty of protecting vital war plants and marksmanship is an important factor in their jobs.

100 PER CENT PLATOON

The only platoon in recent rifle range history to qualify 100 per cent chalked up that record at the Parris Island Marine Corps Recruit Depot. Platoon No. 709, an officer candidate unit, produced eleven Expert Riflemen, thirty Sharpshooters, and thirteen Marksmen, with none not qualified.

It was a perfect day and there was not a single malfunction, jam, or mechanical failure of any sort. Not a single alibi string was fired. The lowest score was 276, well above the qualification minimum.

Major General Emile P. Moses, commanding, personally presented medals to the riflemen of Platoon 709 in an impressive ceremony before Marine recruits at the range.

Almost equalling the "perfect" platoon were two others, 710 and 711, with averages of 98.2 and 98.1 respectively. Only one man in each of these platoons failed to qualify.

BILL SHADEL DONS UNIFORM AS RIFLEMAN WAR CORRESPONDENT

Acting on travel orders just received, Bill Shadel vacates, as of this issue, the editorial sanctum he has occupied since May, 1941, to embark almost immediately for the European theater of war where he will act as correspondent for THE RIFLEMAN and *The Infantry Journal*.

Bill has a wide circle of friends in military, press, and radio circles, as well as in our own Association, and these contacts, together with his intimate knowledge of RIFLEMAN and NRA aims and policies, should make him invaluable as a reporter whose interest will be focused primarily on the individual riflemen at war. His stories will be those of a trained and accurate observer, written *for* THE RIFLEMAN, *by* a rifleman, for riflemen. As such, they should not only interest you but should serve also to spread the gospel of marksmanship through new channels to audiences never reached before.

Editor Shadel, War Correspondent

It's a big assignment; that's why a big man was picked to fill it. Good luck, Bill, and happy landings.

SHOOTING IS A TOUGH GAME!

From Parris Island comes the report that college athletes find the rifle range tougher, in some ways, than the gridiron. Tight muscles, stiff knees, and old leg injuries incurred in football, track, and other sports make that old kneeling position plenty difficult. Ask a few dozen young officer candidates who, not so long ago, struggled through "boot camp" at the Island!

Rugged athletes, they breezed through the most difficult physical drills, but when it came to that "sit on your foot" kneeling position, the toughies quailed. They groaned and grunted like professional wrestlers.

Classic example was Blondie Black, former Mississippi ace. Blondie bent his right leg slightly, went halfway down, and said, "As far as I'm concerned, that's *it!*"

"Football knees" not serious enough to disqualify a man physically often make the kneeling posture painful or even impossible. The case of George Carter, formerly at Oklahoma A. and M., is notable. Carter tried the kneeling position and couldn't come close. He tried all sorts of variations, became expert in all other positions, but his kneeling score cost him thirty points.

Next loudest Officer Candidate complaint came from those men who had been firing rifles all their lives left handed and were forced to switch for semi-automatic rifle shooting. Three athletes so plagued were Jack Darnton, All-Missouri Valley basketball star, Frank Brahaney, Texas U.'s speedy basket-shooting guard, and Harold Lind, the hard-hitting southpaw who led Iowa University's baseball offense for three years.

HUNTERS' SALVAGE

Hunters and trappers are again urged to aid the war program by saving hides from deer and elk, fats from fur-bearing animals, feathers from ducks and geese, and discharged shotgun and rifle shells.

Small game and fur-bearing animals such as raccoon, opossum, and woodchuck are rich sources of fat. It is said that the fat salvageable from the carcass of one opossum will make enough glycerine to fire five 37 mm. antiaircraft shells.

Down and small body feathers of ducks are needed for lining high-altitude flying suits. The down of ten mallard ducks will supply such a suit with protective warmth against subzero temperatures and with enough bouyancy to keep its wearer afloat several hours. The feathers wanted are body feathers of ducks and geese, dry picked, less than two and one-half inches in length.

Deer and elk hides furnish the necessary leathers to make gloves and mukluks urgently needed by soldiers stationed in cold climates.

Hides must be handled through ordinary commercial channels. Two national conservation agencies have established feather-collecting depots: The Izaak Walton League, 2801 South Halsted Street, Chicago, and Ducks Unlimited, 83 Columbia Street, Seattle. Packages may be mailed collect but must be marked "Waterfowl feathers."

Hunters are warned that animals must still be taken in compliance with game laws!

MINIATURE RANGE

A miniature rifle range which helps soldiers improve their marksmanship and saves time and gasoline has been developed by the 15th Signal Training Regiment.

Designed by Colonel John Przekop, of Norwich, Connecticut, the range is a small replica of the regular range which is located sixteen miles from Fort Monmouth—eighteen targets, reduced to duplicate the appearance of regulation targets at regulation ranges, and placed approximately a thousand inches from eighteen firing points at which the men go through regular dry-firing procedure. The targets are mechanically arranged to "bob" and complete firing-line technique is used, including the regular sequence of commands.

"Soldiers who have been trained on this pint-sized range usually show up well when they fire for record. They have the timing, and know what to expect."

Specifications for such a range have been furnished to several other army organizations for use in their training programs.

THEY DIED SHOOTING

From B. J. McQuaid, War Correspondent of the Chicago Daily News Foreign Service, comes the story of the Marine landing at Betio, excerpts from which are quoted by permission:

"Japanese leaders on Betio told natives that it would cost the Americans 100,000 lives to capture the atoll. . . . The Jap high command probably would be bitterly disappointed to learn the actual figures. This should be remembered in reading stories emphasizing heavy loss of American lives.

"We did not, of course, employ anything like 100,000 troops in the entire Gilbert's operations. . . . Exact casualty figures cannot yet be published. . . . I certainly do not want to minimize a scene of death and devastation, but it would be easy to overemphasize losses that appear shocking because they piled up in a short time on a very small piece of land and thereby, perhaps, weaken public confidence in the leadership of men like Major General Julian Smith, Colonel Meritt A. Edson, and Colonel Dave Shoup whom we here believe are better than any Jap commander and the equal of any Allied leader.

" 'Look at the attitudes of those bodies,' said General Smith, gesturing to where the corpses of his 2nd Division Marines were being jostled by the gentle tide against the coral retaining wall of a Betio beach. 'Notice that each one seems to have been shooting at something when he was killed. It was even more noticeable before the tide rose.'

"They were all lying there, faces down, heads pointed straight at the beach defenses, hands still clutching their rifles.

" 'I am sure that practically every one of those men killed at least one Jap before he died. That's what they were trained to do. Every man in this division is a crack shot. About 40 per cent of them were veterans of the fighting in the Solomons, but the newcomers had been drilled until they were as good shots as the others.

" 'Here is where that training paid off. If those men had not killed Japs before they died, their buddies would never had gotten on this beach at all!'

"General Smith and his chief of staff, Colonel Edson, are famed throughout the Marine Corps as exponents of the theory—regarded in some military circles as outmoded—that soldiers should be trained as individual marksmen. General Smith and Colonel Edson are champion pistol and rifle shots and both have commanded the Marine Corps Rifle team.

"The General's conviction that his men killed Japs as they waded ashore from their landing craft, by firing accurately through the tiny apertures of the beach pillboxes, seems unassailable. If many Japs had not been killed in this fashion, our casualties in winning these beachheads certainly would have been far higher than they were.

"Had these Marines been anything less than superb troops under superlative leaders we would not be on Tarawa today at all. I already have reported the opinion of many of our leaders that a determined Jap counterattack that first night would have wiped out our shallow beach positions. That counterattack never came and it was the Americans instead who attacked from their precarious beachheads before dawn next morning.

"General Smith today shed further light on that amazing feat. The General is a great admirer of Ulysses S. Grant. . . . He said, 'All during that first night, while Dave Shoup was pinned down there on the beach, with his command post set up in one end of a little log blockhouse that still had sixteen live Japs in the other end, I kept thinking of what Grant said to Billy Sherman at Shiloh. I can't give you the exact words but the gist of it was this: "During every hard-fought battle there comes a time when both sides are just about whipped to a frazzle and when the slightest pressure either way will decide the issue. In that situation, the fellow who wins is always the chap who can rally his forces first and attack again—and the man who attacks before I do will have to get up damned early in the morning!" ' "

SELF DEFENDER

Thomas T. Kaster, Kansas City jeweler, carries .45 caliber insurance. Kaster sleeps in the rear of his shop. Wakened by a noise early in the morning of December 11th, Kaster saw a figure silhouetted against a window and reached for his gun. He fired twice and called the police.

The dead body of the burglar was still hanging in the window when the police arrived. Identification led to the arrest of three accomplices who confessed to being outside the shop when the shooting occurred, and to other robberies.

Kaster lived, as a boy, near a military reservation in Iowa. He did a lot of shooting then with Springfield rifles and pistols, participating in many matches. His Kansas City shop represents his life savings and the widespread publicity given this evidence of Kaster's ability to protect his "castle" should be a practical guarantee that the attempt will not be repeated.

STOLEN

Taken in burglary, October 11th, from Douglas Aircraft Company Welfare Storeroom, Santa Monica, California: 3 cases (50 boxes) Winchester Ranger 20 gauge shells, No. 9 shot; 91 boxes Remington Springfield .30-'06 cartridges; 1 case (100 boxes) .30-'06 and miscellaneous high-power rifle cartridges; 31 cases (310,000 rounds) Peters Target .22 Long Rifle cartridges. Two hundred dollars reward. Notify James E. Davis, Douglas Aircraft Company, or Captain Clyde Brown, Santa Monica Police Department.

COMING EVENTS

Registered Class "C" Tournaments

North Carolina, February 19, 1944—Fourth Annual Indoor Pistol and Rifle. Charlotte Rifle and Pistol Club. John H. Pierczynski, 1221 E. 36th St., Charlotte.

Illinois, January 16, 1944—I. S. R. A. Mid-winter Indoor Pistol Championships sponsored by Illinois State Rifle Association. Robert W. Maloney, 5553 West Grace Street, Chicago (41).

Nonregistered

Ohio, February 15-March 15, 1944—Ohio Sectional Rifle. For program write H. D. Erk, 3066 Indianola Ave., Columbus (2).

Missouri, January and February, 1944—American Smallbore Indoor Record (postal) Matches, 50- and 75-foot offhand. Write Claude E. Roderick, Monett, Missouri.

LADIES' CHALLENGE

The Bergen, New Jersey, Rangerettes challenge other ladies' teams to shoot two-position postal matches, ten shots prone, ten offhand, fifty or seventy-five feet, any sights. Write Mr. Douglas Demray, 37 Yakara Avenue, Rutherford, New Jersey.

SCOUT SNIPERS

Jungle warfare has produced a new type of Marine specialist, the scout-sniper. Modern counterpart of the Indian-fighter of pioneer days, these American lads, many of them city bred, are providing proof that in rugged individual combat Americans shine.

Clad in camouflage, these specially trained Marines spend days in the jungle, "on their own," to bring back information about enemy strength and positions. The scout-sniper must be an expert in rifle marksmanship, reconnaissance, scouting, demolition, and jujitsu. He travels light, carrying nothing but his rifle, K-rations, compass, and maps. So equipped he is prepared to weather jungle storms, live off the country or the enemy, and meet all jungle emergencies.

John H. Redfield

John H. Redfield, founder and Vice-president of the Redfield Gun Sight Corporation, Denver, Colorado, died November 19th of pneumonia in St. Joseph's Hospital, Denver. He was eighty-four.

Owen Tytegraff writes: "John lived a long life and, I think, a happier one than most people have. He hunted from the time he was big enough to carry a gun and this love of guns and the outdoors influenced his entire life. Even though he did not go hunting the last few years, he got just as excited as anyone else when the deer season rolled around. He was a grand old man and we are really going to miss him."

Charles Ellis Angus

Master Gunnery Sergeant Charles Angus, of Nashville, Tennessee, whose keen eye and expert trigger finger won him national and international honors as a competitive target shooter and won him recognition as a hunter of Japs on Guadalcanal, died December 8th in a San Diego, California, hospital of illness resulting from his gruelling experiences in the South Pacific.

A Marine since 1917, Sergeant Angus was a member of the 1924 Marine Rifle Team that won the national championship at Camp Perry. Five years later he took second in the international matches in Holland. In 1926 he was escort to President Calvin Coolidge aboard the Mayflower. After World War II began he was rifle instructor at New River, North Carolina, until sent to the South Pacific.

Sergeant Angus landed with the first battalion on Guadalcanal and fought throughout the conquest of the island. He figured prominently in the Battle of Tenaru River, where his deadly long-range shooting won the praise of INS correspondent Tregaskis.

He was forty-three years old, a native of Nashville. He is survived by his widow, his parents, three sisters, and four brothers.

ON THE FIRING LINE

WITH THE PRE-INDUCTION TRAINING SCHOOLS

YEAR'S-END REPORT

The following figures summarize the progress of the Pre-induction Training School program as shown by reports received from clubs up to December 15th:

Rifle schools	737
Pistol schools	161
Shotgun schools	5
Total number schools	903
Classes graduated	1,257
Attendance certificates (rifle)	17,733
Attendance certificates (pistol)	4,436
Total attendance	22,169
Qualified:	
Basic Rifleman, 1st Class	3,012
Basic Rifleman, 2nd Class	1,866
Basic Rifleman, 3rd Class	1,413
Total	6,291
Pistol Defense Sharpshooter	883
Pistol Defense Marksman	444
Pistol Shot, 1st Class	148
Total	1,475
Total qualifications	7,766
War Service Certificates issued	281
Junior Instructors:	
Assistant	302
Probationary	91
Junior Instructors	315
Total	708
Senior Instructors:	
Assistant Pistol Instructors	23
Marksmanship Pistol Instructors	101
Assistant Rifle Instructors	285
Marksmanship Rifle Instructors	458
Total	867

If these figures seem a little disappointing in view of the goals set in the beginning, it should be remembered that practically the entire physical application of this training program is being handled by men—our club instructors—who are doing full-time war-jobs first and then devoting a generous share of their remaining hours to this work.

It should be remembered, too, that this program, sponsored by a non-profit Association, has been publicized largely by word of mouth and by a comparatively small amount of free newspaper publicity. The only paid-space advertising it has received was given it by Mossberg, firearms manufacturers, who made the program a part of their advertising campaign. This later publicity, invaluable as it unquestionably will be in the long run, is of individual (rather than group) appeal. Its results will be cumulative, increasing in volume as the months pass.

Otherwise, the program has been submerged, in the publicity sense, by the multitude of other "stories" wearing larger, catchier headlines. This is proved by letters received at NRA headquarters. Soldiers write us, even now, asking why the NRA doesn't initiate a training program to teach inductees to shoot! They are surprised to learn that such a program is already in operation.

Men are being taught; more and more men each day. In 1944, with nearly sixteen hundred new instructors (and more in the making) there will be more schools, more classes, more men trained.

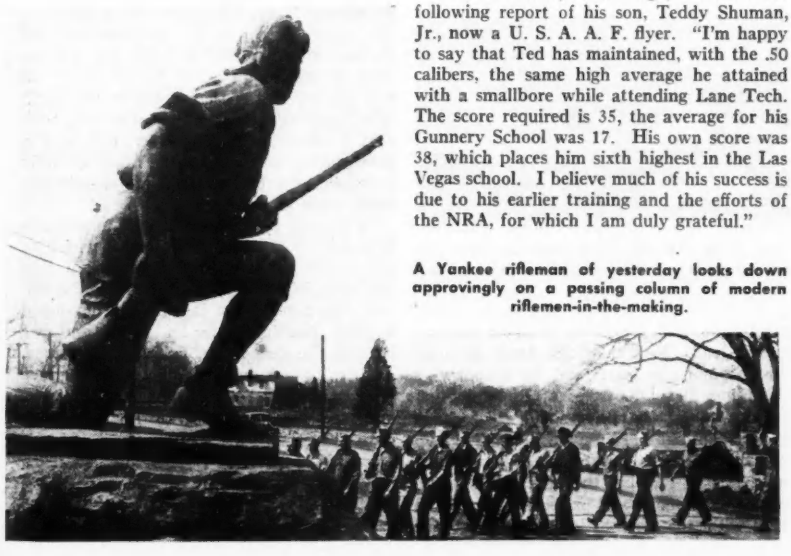
It's a snowball, gathering momentum. With your help, we will keep it rolling!

"The use of highly trained snipers assumed increasing importance throughout the (Tunisian) campaign. The development and effective use of snipers should be given special attention."—FROM AN OFFICIAL REPORT.

"Take for example Private First Class Samuel D. Levin, of Philadelphia, whose rifle company in Sicily ran into tremendous crossfire from enemy machine guns and 20 mm.'s which pinned the company to the ground. On his own initiative, with two other enlisted men, he crossed fifty yards of open ground under continual enemy fire, climbed the heights to the enemy position and with accurate rifle fire put the enemy crews out of action."—INFANTRY JOURNAL.

STRAIGHT SHOOTER

T. H. Shuman, of Chicago, sends us the following report of his son, Teddy Shuman, Jr., now a U. S. A. A. F. flyer. "I'm happy to say that Ted has maintained, with the .50 calibers, the same high average he attained with a smallbore while attending Lane Tech. The score required is 35, the average for his Gunnery School was 17. His own score was 38, which places him sixth highest in the Las Vegas school. I believe much of his success is due to his earlier training and the efforts of the NRA, for which I am duly grateful."



A Yankee rifleman of yesterday looks down approvingly on a passing column of modern riflemen-in-the-making.

ADVICE TO MY SON

Today you are three years old. In the passage of time, God willing, you will come into youth and manhood. Life lies before you.

My message to you is simple, brief: Learn to shoot straight!

Learn that and you will know that the basis of accomplishment is a steadfast aim. You will know that there is satisfaction in a job well done; that success is measured in terms of your own efforts. You will have acquired patience, and calm, and command of yourself. You will have acquired steadiness of hand and eye and nerve.

You will have learned to think for yourself and to place value upon those homely virtues which no war or wars can ever destroy; the virtues of self reliance and fair play, the worth of an honest defeat and an honest victory.

So taught, you will command the respect of men and of nations.

Learn to shoot straight, my son!—By VIC WHITMAN.

BOY SCOUT RIFLEMEN

For several years before our entry in the war, training in rifle marksmanship played an important part in the activities of Troop 97, St. Marys, Pennsylvania. Scouts from every troop in town were given instruction and practice on the Troop 97 range. Immediately following December 7th, this training was enlarged quite easily due to the fact that an experienced group of trained Assistant Instructors was ready. In October, 1942, the school received NRA approval and since that time has followed the training course and requirements of the National Association.

One hundred and thirty adults have attended the school, one hundred and fifteen of whom qualified and received certificates. Many of these are now in the service and some thirty of them are members of the local defense corps. Nearly two hundred boys and girls of Scout age have been instructed and some one hundred and fifty Junior NRA qualification badges awarded.

NEBRASKA RIFLEMEN

The Lincoln (Nebraska) Rifle and Pistol Club, recent recipient of the NRA War Service Certificate, has just graduated another class of pre-induction marksmen with Tom Estes topping the score sheet in the final qualification match. Estes scored 271, topping Gene Kelly by a margin of one point to win the gold key offered by the club.

The Lincoln club was organized in 1940. Its Small Arms Training Program was inaugurated last year and has turned out seventy-five graduates to date, with more in training.

Quoting from the Lincoln Sunday *Journal and Star:* "Best of all are the letters from the boys sent from club training into various branches of the service. They write back from marine 'boot' camps, from naval yards, from army posts, that the rifle and gun fundamentals they learned . . . stands them in good stead as they prepare to get into the thick of it."

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

The .505 Gibbs on Grizzlies, Elk, and Deer Versus the .30-30 · The .30-'06 on Siberian Tiger · The .228 Ackley Magnum on Deer · Loads for .220 Swift and .250 Savage · Gas Check Loads for the .257 Roberts · Dope on the .45 A.C.P., the .38 S. & W., the .32-20 and the Air Pistol · Latest Gunsmith List · Trade Dope · Letters.

THE .505 GIBBS ON GAME

Last spring Fred F. Wells of Butte, Montana, purchased a 9-pound .505 Gibbs bolt action from Hoffman Arms. He didn't agree with my friend Vitt who preferred to use his weaker .30-'06 on Siberian tiger rather than take the kick of the big Gibbs. I might add that George got his tigers, with his Winchester combination of rifle and 180-grain loads, all three of them in a few too busy minutes, the last two charging and the final kill falling too darn close with the gun empty by that time. That was in Manchuria in 1929, when George Vitt had his quarters in Harbin two years ahead of the Japs. He had bought the .505 in Shanghai, but got all bruised up sighting it in prone, and brought it back. I mentioned this in the Dope Bag when I reached the .50 caliber in my cartridge series. In that dope from Vitt and Chauncy Thomas the reader probably got the impression of terrific recoil. Now Fred Wells comes along and says, "Even in a light 9-pound gun the recoil isn't so bad; even my wife shot it."

That was in September. In November he wrote, "This .505 has quite a kick, but on shooting game you do not notice it or even remember how it had kicked you. I have even talked my wife into using it on elk as she and I have both shot it prone without much difficulty. After the war I intend mounting a Lyman Alaskan with a Stith mount on this .505, as I have yet to find any sight that beats a good scope for fast shooting, if you are used to them." Wells said a great deal more than that; a heck of a lot more and far more interesting. In fact, his experience with the .505 on charging grizzlies was fully as thrilling as Vitt's was on those charging Siberian tigers. Wells had been laid up with blood poison for three weeks when he wrote, an aftermath of his encounter with the grizzly whose claws raked his knee cap sliding by as Wells tried to roll clear.

The new .505 Gibbs and its 525-grain bullet at 2400 f.s. was first tried on a crippled horse at 20 feet. The soft-nose bullet went completely through both shoulders making an even size hole. It killed instantly, knocking the 1200-pound animal off its feet, while smashing all in its path without opening up, and making Wells yearn to try it on an African elephant. He and his partner did the next best thing by taking a pound of salt, a blanket, a .22 pistol, and plenty of ammo for the .505 and a .300 Magnum which they carried into the highest and roughest Montana region they could find after hoofing 50 miles; the habitat of elk and bear.

On opening day they sighted a grizzly and worked up to 175 yards. Fred Wells raised the 200-yard leaf on the .505 and held 6 inches below the center of the bear's shoulder. The bullet made a 3-inch hole where it came out on the opposite side and the bear moved no more. Wells prepared to skin the 800 pounder while his partner moved the two rifles well out of the way. A racket behind him made Fred turn in time to see a charging grizzly bearing down on him and less than 10 feet away. He could only roll aside on his back as the bear put on the brakes and came back from 10 feet beyond. At that point his partner had retrieved the .505 and returned to his side. There was no time to raise the gun, but he got it out in front of him and fired it while the grizzly was only a gun length from them. The big slug caught the animal squarely in the chest and flopped it on its back after a complete somerset. It didn't move outside of a few kicks. This one also weighed 800 pounds. That experience gave Wells a new yen; this time, one to try the .505 on Kodiak bear in close quarters. However, for the present, they had to be satisfied with elk, deer, and a coyote.

Later, on the same trip, Wells shot a bull elk through both shoulders inside of 150 yards. Again it killed instantly and knocked the beast completely off its feet, this time without spoiling a pound of meat. At the same range a 200-pound deer was creased through the back without touching the backbone, but the big bullet knocked him down, like a sledge hammer blow to the head of a beef, and the buck stayed down until finished off with Fred's .22 pistol. Fred also tried the .505 on a coyote, hitting it in the stomach and knocking it 20 feet, dead.

Naturally, Fred Wells has visions of necking the .505 Gibbs to take the 300-grain slug of the .375 H&H Magnum, because he's the same guy I've been writing about in the Dope Bag in connection with the .50 caliber M.G. necked to .30 caliber for a regular load of more than 100 grains of No. 4064

Fred Wells, the .505 Gibbs and Grizzlies. The one on the left is the one that clawed his knee.

powder. I also showed a sketch of his action and Bull Pup stock designed for this terrific load. Now the U. S. Army Bazooka has inspired him anew and he is following the Camp Perry footsteps of Richard Stieff with a 6-foot barrel, a shoulder stock in the middle and a Tommy gun handhold up in front. His cheek rests on the 2-inch barrel a la Bull Pup but the underside rests on top of his shoulder and projects 3 feet behind him with the bolt action receiver at the extreme rear. This puts the high pressures and any inadvertent explosion well behind the shooter. Like Stieff before him, Wells claims such a contraption holds very steadily in any offhand position.

THE .30-30 ON GAME

Coming as a sidelight on Fred Wells' grizzly encounter, I have a clipping dated "Calgary (Alberta) Oct. 25" concerning a more grisly encounter with a grizzly by a resident of that place, after shooting the cub-protecting female seven times with his .30-30. G.M.S., the shooter, said his last shot broke her shoulder and saved him from a deadly hug. He was knocked down, kicked around and chewed badly, but managed to protect his throat with his arm. He had deep bites in arms and legs and head as well as broken ribs, the bear finally leaving when he pretended to be dead. The hospital was quoted as calling his condition good on that date, no further report being available on his progress or lack thereof.

W. B. Elliott, who sent in the clipping, commented on his observations in Canadian deer woods, saying that the .30-30 class will not knock deer down unless they are hit in the shoulder bones, back bone, or ham bones. This takes in the .32-40, .32 Remington, .32 Special, .303 Savage, and .38-55, as all are in the class of the .30 Winchester and .30 Remington. Elliott's experience is that the .35 Remington is appreciably better and that the .303 British and .30-40 Krag with 215- and 220-grain loads are far the best in reliability.

THE .228 ACKLEY MAGNUM ON DEER

My Ackley Magnum has some interesting components, the .228 barrel being made and fitted by P. O. Ackley, of course. The Model 1898 Mauser action was originally on a foreign .30-'06, and a good one despite its extremely light weight and proportions, its .310 inch grooves and its excessive headspace. An Enfield barrel followed, fitted and chambered by George Hyde, and finally the Ackley job. The razorback toothpick stock was replaced by one of native Florida mahogany, custom built to my design by E. H. Hoffman. It still has my first special design of Belding & Mull hunting scope, later fitted out with coated lenses by R. W. Miller, and with a Springboard mount made and fitted by Andy Sorensen, which latter is of considerable importance to this story.

In the fall of 1942 we sighted in the rifle to shoot 2 inches high at 100 yards with Sisk and Barnes 70-grain bullets. I took it that fall, with Bill Corson, on a bear hunt which was rained out. The fall of 1943 developed another possibility for a hunt, and we checked the zero again, finding it the same. Al Barr took it into a deer camp and gave it hard use and some unavoidable abuse, and we were surprised to find the zero remained exactly the same upon checking it after his return to Washington. It is a dependable outfit.

The .228 Ackley Magnum, on the .30-'06 case, proved to be the most powerful load

in the deer camp, and the outfit created a very favorable impression and much interest by its performance. It was found that shots could be called up to 175 yards on running deer in the brush. Altogether, three deer were killed out of four shots fired on such game, all hits resulting in deadstop kills. Al got his buck running at the longest range with it, but that is another story and probably one which he will tell himself, sometime.

THE .220 SWIFT AND .250

Leo J. Coffey, a Life Member who shoots crows, hawks, and prairie dogs in wind-swept Nebraska, has fired his Model 70 Swift 2000 times without appreciable loss of accuracy. On his last hunt he made 18 kills out of 22 shots, and the last two dogs were 300 steps from the rifle. The bag included a crow and two sharpshinned hawks, or Cooper's, also. His load is 37.5 grains No. 4064 which puts the 55-grain Sisk Express 1.5 inches high at 100 yards, on aim at 200 yards, 1.5 inches low at 250 yards—and 4.5 inches low at 300 yards. He reports fine accuracy and only a very occasional flier, something he and his pal, Ken Plummer, have never had with W.M. 8S bullets. In one experiment he filed flat the points of 8 of the 50-grain 8S bullets and got an inch group with them at 100 yards.

Coffey says the Western .25-20 86 grain is very accurate in his .250 Savage, in whose cases he uses the W.R.A. No. 115 primer. He would like to have bullet makers bring out a 75-grain spire point a la 8S shape. The 100-grain Silvertip is an accurate bullet in his Model 54 Winchester in this caliber. He tried 38.5 grains of No. 4350 and got 10-shot groups of 1.5 inches at 100 yards and 2.8 inches at 200 yards. The impact was 2.3 inches high at 100 yards and 1.9 inches low at 200 yards. With a load of 36.5 grains No. 4064 the impacts were 2.5 inches above aim at 100 and on aim at 200 yards.

From the above it appears that Coffey's .220 Swift load shoots 2 inches flatter over 200 yards than his No. 4064 load in the .250 Savage, which in turn is an inch flatter over the same range than his No. 4350 load in the same rifle.

ZERO CHECK

Our friend, Mark Cooper, has been too busy with war guns to shoot some of his sporting guns for two years, but he finally found time to take two of them from the shelf and test their zero. His Model 70 Hornet with Weaver 330 scope and B mount had moved 3 minutes to the left according to his target. His Model 54 Winchester in .250 Savage with Weaver T mount and 29S scope stayed put according to similar evidence. His old handload was 36.5 grains of No. 1185 with 87-grain Barnes bullet and F.A. No. 70 primers. One grain more puts the group about a minute higher, and 10 grains less (26.5) puts it about 3 minutes lower. He has a Model 70 bolt sleeve and trigger and a "bent down" handle on his Model 54.

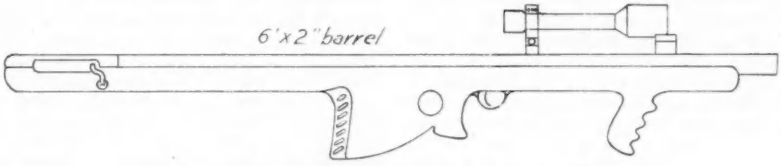
CALIBER .25 KRAG H.P.

Up in Michigan, Hoyt Lyman has a Sharps Borchardt barreled and tightly chambered by A. O. Niedner for the .25 Kragg H.P. The twist is a turn in 14 inches, and he uses 60-grain .25-20 bullets with No. 1185 powder. The loads were 38.5 and 42.0 grains, fired in a barrel of 27 inches. The heavy load made a 3-inch group but the other performed excellently. He asked me to do some tall guessing with little definite dope on which any estimates could be based. However, my opinion was that 38 grains gave 3100 f.s. m.v. and about 2400 f.s. r.v. at 200 yards. I opined that 40 grains would develop 3400 f.s. m.v. and have but a little more than the other left at 200 yards. I believed that 42 grains, under the circumstances stated, was an excessive load giving erratic pressures (probably high) and varying velocities (maybe abnormally low). Now I hope to hear from some one who has definite dope on this cartridge in a similar combination.

GAS CHECKS FOR COYOTES

I wanted a rifle that would do at 300 yards the same thing that my Pope Ballard .32-40 rifle would do at 150 yards. So I got the number of grooves in the Pope Ballard, which was six, and the pitch of the rifling, which was 16 inches. Then I selected the .257 Roberts cartridge but had it rifled the same as the Pope Ballard rifle, with a barrel 3 inches longer, which made a 27-inch barrel, and heavier or 1⅛-inch breech tapered to ⅝ inch at muzzle. The new rifle weighed 10¾ pounds while the Pope Ballard weighed 8½ pounds. The groove of .257 inch against the Pope's .320 inch made a difference of 63/1000 in diameter, and there was a difference of 65 to 85 grains in bullet weight and from 1000 to 1500 f.s. in velocity. I will give you the results obtained at 100, 200, and 300 yards, using Montgomery Ward catalogs for testing the relative destructiveness of the two rifles, using different weights of bullets and powder charges. All powder was No. 2400, with F. A. 70 primers and gas-check bullets. For the Pope Ballard rifle I had only one load. This was a gas-check bullet, 166 grains weight, a special round-nose bullet for this rifle, with 16.5 grains of No. 2400 powder.

I sighted in both rifles at 200 yards bench rest, and the Pope Ballard shot 3 inches high at 100 yards and 4 inches low at 300 yards. The Mauser .257 shot 1 inch high at 100 yards and 1½ inches low at 300 yards with 111-grain gas-check bullets and 16.5 grains of 2400 powder. It shot ¾ inch high at 100 yards with 117-grain bullets gas checked and 2 inches low at 300 yards. Power charge was 16.5 of No. 2400 and the destruction with all shots was about the same. If you shot at a coyote at 100 yards you would over shoot him with the Pope Ballard and at 300 yards you would under shoot him, as the 7 inches difference is a little more than the size, up and down, of a coyote's body. With the .257 Mauser you would hit on all 3 shots. I tried a 100-grain open-point boat-tail bullet on catalogs at 200 yards. It wrecked the catalogs, but did not go through the 2-inch plank behind them. So you see the gas-check lead bullet is the only thing for coyote shooting, if you want the fur. I think I have the real rifle for coyote shooting in my Mauser .257 Roberts, built by P. O. Ackley of Roseburg, Oregon. It gives fine accuracy and is a good all-around job. It is good up to 600 yards. I cannot hit a coyote that far away, but I can put 10 shots in a 16-inch bull's-eye at 600 yards with it.—U. S. HUBBELL.



The Fred Wells Bazooka Pattern Bull Pup for the .50 M.G.

ONTARIO BEFORE THE WAR

For several years I have intended telling about our guns. Father has read the AMERICAN RIFLEMAN for a number of years, and I also, since I was old enough to understand the print. We have enjoyed many a copy during the long winter evenings when the wind howls and the snow is deep outside.

Father is forty-nine years old and firearms have been his hobby and source of enjoyment for a great number of years. He has shot hundreds of guns and owned hundreds. At the present time we have only 34, but I believe they are the pick of the lot. They include 18 handguns, 16 rifles and shotguns. Father and I can go out to the shooting range and enjoy shooting either our muzzle loader or the latest .22-3000 custom-built single-shot scope-sighted job. We believe that it is the most marvelous cartridge on the market for its great accuracy and adaptability to various powders and bullets.

A friend of mine, J. E. Sullivan of Cedar Springs, has the finest .22-3000 we have ever shot. It is a very accurate gun. It is a Stevens 44½, 52W No. 4 barrel, .224 grooves and one turn in 14 inches, Unertl 6X, crosshair, Fecker mounts. This gun groups into ½ to ¾ inch at 100 yards on a still day with proper light conditions. He also has a Parker Hale-Winchester S.-S. R-2, but none of us has had the opportunity to try it out. T. K. McCurdy of 6 Hazel St., Ottawa, did the relining and chambering. Mr. Sullivan also has a .44 Stevens, D.S., No. 3 barrel, special stock, relined and stocked by G. B. Crandall of Woodstock. The caliber is .22 Long Rifle, and it has a Fecker 4X, crosshair, Fecker mounts. The best .22 Long Rifle we ever shot.

We are very fortunate as we have a shooting range of our own at our back door, from 10 yards to 500 yards, and a lot of the boys, when they get something new in the gun line, bring it here to try out and this gives us the opportunity to try various guns and sighting combinations. All our rifle shooting is done from an adjustable bench rest.

The new Varminter seems to be a promising cartridge, but I believe I like the rimmed version of the Varminter case designed by G. B. Crandall of Woodstock, Ontario. A .303 case sized down to .22 caliber. The sample case I have is beautifully sized down. Just what angle of shoulder I couldn't say. It will be a fine cartridge for the S.-S. action

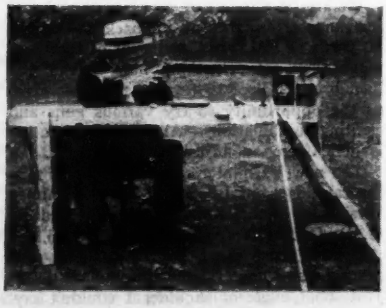
fans. However, so much for the high speeds, our true love and pets are the Scheutzen rifles and calibers outdated and outmoded. I still take my hat off to a well grouping .32-40 or .38-55.

Once in awhile we see some one in AMERICAN RIFLEMAN taking a sly dig at the old Scheutzen shooters and their cartridges. After all, much of our present theory and ballistical knowledge of rifles was founded on the lengthy and patient experiments of such as E. W. Mann, F. W. Mann, Dr. W. G. Hudson, Herrick, Pope, French—and many others whose names have been forgotten. Father gave up Scheutzen shooting years ago at the time he was using an 18-pound Winchester .45-70 No. 5 barrel. About five years ago, because of our shooting companion, Mr. Sullivan, we started to shoot the Scheutzens again. Mr. Sullivan had several .38-55 and .32-40's and sold them to us. Well, to say the least, we have done some very marvelous shooting. We also had some targets that we didn't show anybody.

We just secured a new Harrington and Richardson .22 S. A. revolver No. 4 grip, a very fine shooting little revolver. Feeling the need of a cheap .22 S. S. target rifle, we also bought a 35A Mossberg expecting fair accuracy. We were surprised to find the little gun shooting right along with the best of them.

The latest addition to our battery is a 27-pound muzzle-loading target rifle made by A. M. Cone of Corry, Penna. The barrel measures 2¼ inches across the flats and is 31½ inches long. It is .47 caliber and has a gain twist, starting out about one turn in 48 inches and finishing up about one turn in 30 inches. Obviously, a ball gun has wide grooves and very narrow, ribbon-like lands. The barrel is brown and equipped with a very elaborate false muzzle and very complete peep sights. The action is a backaction, side-hammer lock, equipped with set triggers. The stock is of very plain walnut fitted with an engraved buttplate. The action, trigger tang, and guard and patent breech are beautifully engraved. The entire gun is in factory condition inside and out. There also came with gun an assortment of swages, moulds, and an affair which fits in a socket under the butt of the rifle when the gun is on the shooting bench; it has both windage and elevation adjustment for getting the gun lined up for dead center on the target. We hope you will pardon our sermon on this gun, but it's certainly some gun. We have 3 other target muzzle-loaders. The picture below shows father squeezing one off with his 16-pound slug gun at the bench rest.

—JAMES L. SECORD, JR.

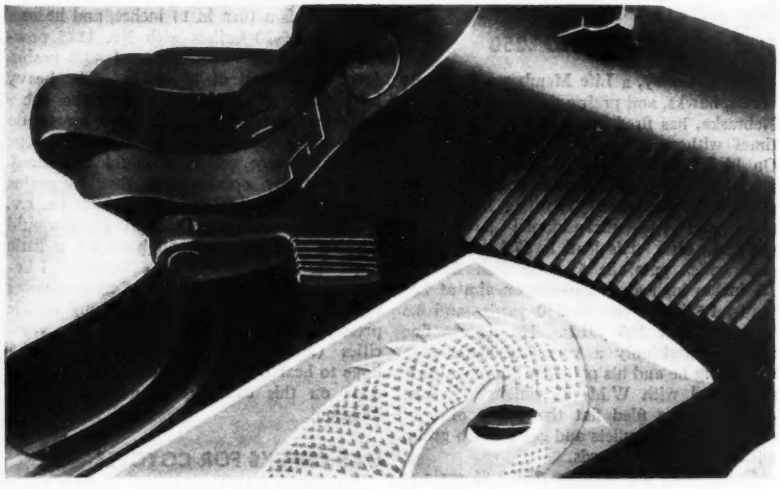


James L. Secord Senior at the bench rest

AMBIDEXTROUS .45 A.C.P.

Recently I remodeled a .45 Automatic a la Harpe and as I'm left handed I wasn't satisfied. I removed the safety, cut off the pin and dressed the back of the safety smooth, made a longer pin and welded the pin to the safety with my little electric welder.

When the sparks stopped flying I found that the end of the safety had been neatly burned off, so I made a new safety and this time had an expert do the welding. I made a small lever to fit on the opposite side and drilled and pinned it to the rod on the safety, reblued the outfit, and made some new grips—ergo, a right and left handed .45.—A. E. SCHUSTER, Parma, Ohio.



The pistol remodelled by A. E. Schuster for either hand

BETTER GRIPS FOR AIR PISTOLS

Having been active in a gun club in Texas as a handgun "bug," but now working in a ship yard in California, with less time to shoot, and "rationed" on both components and ammunition, as are many shooters these times, I went to work on the problem. A young friend of mine purchased a Benjamin .22 caliber Air Pistol and later decided to join the Navy, and I purchased his air pistol.

I found the arm somewhat difficult to shoot at first, due to the "jump," natural with such pistols when the air pressure is released, and to the rather thin grips. The pistol would consistently shoot outside the bull at 9:00 o'clock, and approximately one-half inch from the center of the target. I finally managed to shoot some good scores at from 10 to 12 yards indoors, using a heavy four strokes of air pressure. But I was not satisfied, until I learned just what was the cause of the trouble and set about replacing the grips with a larger pair. I was convinced that the pistol was accurate and practical for indoor or outdoor shooting in closely settled communities due to its little noise, short range and shallow penetration.

I secured some dark walnut and went to work. I made the grips extend below the bottom strap of the arm approximately one-half inch, with a rounded extension at the bottom of the front strap into which my lower fingers fit, building up the space between the grips at the bottom with plastic wood, and making them thick with all edges rounded off, but altogether somewhat rectangular in shape. After I fired it I found, to my great satisfaction, that the pistol shot into the bull's-eye and that the "jump" had almost completely disappeared. Also the appearance was improved. I believe most any grips which will fill the hand will do the job. Of course, the grips can be made with thumb rest, checked, etc.—H. E. BARR.

A DELIGHTFUL .45 A.C.P. LOAD

After several years of searching for a mild, yet accurate target load for my .45 automatic, I have found what I believe to be the ultimate for this purpose. I purchased a Hensley & Gibbs .45 caliber mould. It is a wadcutter bullet weighing 200 grains, with two lubricating grooves. It provides a long bearing surface in relation to contact, more than the regular F.A. issue bullet, as far as passing through the barrel is concerned.

With this bullet I use 4.2 grains of du Pont No. 6 Pistol Powder and this gives a velocity of about 850 feet a second at the muzzle. This bullet will strike two inches lower than the F.A. issue ammo, at 25 yards and about eight inches lower at 50 yards. It cuts a very clean hole in the target, leaving no doubt as to score. The recoil is about 40 per cent of the F.A. issue stuff and the report is at least half as great. To compensate for the higher trajectory you will find a little more elevation all that is necessary, as these bullets hold the same flight as far as windage is concerned. Anyhow I have found this to be true of my automatic.

Recently I had a chance to try them on Mojave Desert jacks. They certainly ventilate these bunnies in great shape. At thirty yards the heads are entirely removed on sitting shots. Until now I have not had a chance to use them in any match, but I am very anxious to find out their real value as far as match work is concerned. As to mixture, it was one part of antimony to nine of pure lead. I find this more accurate than any others tried.—DAVE LANAGAN.

LONG CASES AND SHORT DIES

George W. Spence, of Steele, Mo., discovered he could reload the .38 Special in his old No. 4 Ideal tong tool and wants the tip passed on to others. Designed for the shorter

.38 S. & W. case, the tool readily reprimes and crimps the longer case. It is necessary to preseat a lead bullet in the .38 Special case before crimping the mouth in the .38 S. & W. tool, and the crimping must be done carefully, by the trial method, in degrees, but Spence says it does a satisfactory job. He likes the short case also for reloads of 2.0 grains Bull's-eye, getting good accuracy and practical penetration with the .38 S. & W. cartridge.

GUNSMITHS

Stephen B. Smith, Sonnette, Mont., is fitting sights, rebarreling and repairing but no restocking. Customers should write him before sending work. Rex Rodgers, Box 1002, Odessa, Texas, has added two stockers to his staff and enlarged his facilities for "specializing in stocking fine target rifles, Bull guns and shotguns." Repairing and rebluing can still be had but no scope or barrel material remain in stock. Write before sending. Ken Kern, 3 Walker Street, Newton, N. J., repairs modern and antique firearms but does no stocking. He prefers to work on trigger mechanisms and actions but repairs all types, including handgun and shotgun. Ray G. Groff, 32 Second Street, Newport, R. I., can reblue, remodel, restock, fresh out muzzle loaders and do action work on a part-time basis. No rebarreling unless material is furnished with the job.

EARTH IS 8000 MILES THICK

There is no news in the title, but we must admit in self defense that the earth is considered to be slimmer waisted than the 25,000 miles which many readers have accused D. G. Kramar of giving it in his letter published in the November Dope Bag. Nothing else matters and only the formula is important, but those who dug through the earth to find out insist it only seems like 25,000 miles because you're so weary before you get through at 8000.

GUN RATING

Ray C. Groff uses the standard Arms Chest ratings with assigned numbers: 1—poor, 2—fair, 3—good, 4—very good, 5—excellent and 6—perfect, and applies them in turn to the bore, action, stock, and finish. Then he adds these values and divides the total by four. For example, with bore—4, action—5, stock—2 and finish—1, or total 12/4, it is 3—good. If 3.5 it's very good, or equal to 4.

TRADE DOPE

Announcements. C. Milliron, gunsmith of Hagerstown, Md., advises he has been forced to store his tools and move his living quarters as well as his place of business. J. R. Buhmiller, of Eureka, Montana, has changed jobs and is now a full-time barrel maker and gunsmith. D. W. Thomas, Vineland, N. J., the wellknown stock man, has a new service for shooters with odd or broken stocks. He says he can duplicate any stock ready for fitting at small cost. A repaired, patched up or broken stock can be sent in for duplication and inletting. The new stock will then be like an inletted blank requiring handfitting and finishing. Charles E. Chapel invites suggestions from advanced gun collectors and dealers on revising the second edition of his book, "The Gun Collector's Handbook of Values," scheduled for the fall of 1944. Stoeger Arms Corp. have an instructive pocket size booklet of two dozen pages on how to fit and finish "your Stoeger Peerless stock." A three cent stamp sent to Stoeger's will get you a copy.

LETTERS

Altitude Change. I am going to do my hunting this fall in Arizona outside of Flagstaff, and am going to use a .30-'06 Model-70 Winchester. This rifle is equipped both with Lyman's micrometer peep and Weaver 330 scope, Redfield Junior mount. I targeted this rifle in at 200 yards on the Burbank Legion Rifle Club (member) range using the 180-grain Remington Core-Lokt shell. This range is located at approximately sea level. Where I expect to do my hunting the elevation would range from 6,000 to 8,000 feet. Maybe I'm asking a silly question, but I've been wondering if you could give me any information as to how much higher this 180-grain Remington shell would shoot at these elevations than at sea level? I don't want to burn up any more shells than necessary in making my corrections after I get into Arizona. Any information you might give me will be appreciated.—G. H. C.

Answer: I do not think your question is a silly one. On the contrary, I think it is important to sight your gun in again when you reach the hunting country, because the temperature, pressure, and humidity conditions may change your point of impact. Ballistic engineers take the standpoint that the increased efficiency of the bullet at high altitudes is nullified or counteracted by the lower temperatures usually encountered at high altitudes. However, from the practical standpoint, they could be wrong in many instances, making it advisable to re-zero or check the zero at different altitudes in the hunting zone. I believe that you will find each 2,000 feet increased altitude will raise your elevation approximately 1-minute of angle, and that is about as near as anyone could tell you. This is true in general of a number of calibers, but it may not be true of every load. It may be less with some.

* * *

Damascus. Yesterday I was examining a 12-gauge hammer-Parker shotgun. This gun bore the words "Damascus Steel" on the mid rib, but the barrels showed no visible sign of twist. They were about 3/16-inch in thickness at the breech and of proportionate thickness at the muzzle, engraved over all with a very fine line engraving. If these barrels had not been marked Damascus I could not have told by looking at them that they were not one-piece forged steel.

While I can understand why the ordinary twist-steel barrels, that I frequently see, are extremely unsafe with modern loads, I can not see why these fine strong-looking barrels should not be safe with any load. Can you give me any information?—E. P.

Answer: I think perhaps that the damaskeen surface, characteristic of Damascus barrels, is what you have described as fine engraving. While, in good makes and in heavy construction, such as you describe, many of these barrels and guns can possibly withstand modern heavy loads, it is not wise to shoot them and we cannot recommend the practice. Although many of these guns can use low-pressure smokeless loads, we are restricted in our general policy by the uncertain strength of such guns and cannot recommend the practice of using anything but black powder in any of them, as a consequence of their unknown margin of safety. We realize that this might be unfair to individual guns, but we know of no better solution for this perplexing problem. If it were possible for us to proof fire each one of these guns we could pass on them individually. But, collectively considered, we can only take the stand that they are all unsafe until proved otherwise. Too many hands and fingers have been lost by false faith in some of them. Also no one knows when a heavy load might slip inadvertently into the hunter's pocket or target shooter's pocket and thus find its way into a Damascus, laminated or twist barrel.

* * *

Stiff Revolver Action. I bought a .32-20 Smith & Wesson Target revolver second hand. Is this gun of pre-war manufacture? The number on bolt is 96821. The number on the inside of frame is 86890. It does not have the grooved trigger or back straps. The finish is just like new. I like the gun very much, except the action works so hard. All my other revolvers have been Colts and the hammers could always be cocked with ease. But on this S. & W. gun I almost have to use both of my thumbs to cock the hammer, but after the hammer is cocked the single action pull is very good. The gun shoots right where you hold it.

At times the cylinder seems to bind; it being hard to get the cylinders to flop out to the side. I also have difficulty in putting the cylinder back into place; it being necessary to hit the cylinder with the palm of my left hand to get it to close completely. In shooting the gun double-action the pull is also very heavy. Can this action be made to work as smooth and easy as the Colt Officers' Model? Is this stiffness caused by a heavy mainspring?

I took a fancy to this gun and also to the .32-20 cartridge, due to its rather high velocity and light recoil. I don't know but I think that the .32-20 is a better grouse and small-game load than the .38 Special mid-range wadcutter load. The reason I think that the .32-20 is better is because of its 960-f.-s. velocity as compared to a little over 600 f.-s. for the .38 Special mid-range wadcutter load.—J. H.

Answer: I have found Smith & Wesson revolvers to be as smooth in action, and especially in double-action firing, as any make, without exception. The reason for the trouble with your gun is either dirt in the action, improper fitting or jamming of parts, caused by burrs, scratches, or other obstructions. In the matter of improper spring tension, the possibilities are a mainspring adjusted for maximum strength, which you can probably release by a small screw near the bottom of the spring inside the grip in the front stock. The other tension possibility is the front cylinder-lock in the lug under the barrel forward of the cylinder. Turn this out to make it open and close with greater ease, as you evidently have too much tension on this spring plunger. Finally, if none of these things work, you can get it absolutely smooth by sending it to Smith & Wesson, Inc., Springfield, Massachusetts, for overhauling.

The .32-20 is a better game cartridge than the .38 Special, I believe. I had a revolver exactly like yours, but of later manufacture, or post-war. The best factory load to use is the Winchester 100-grain lead smokeless load, which has a special brand of smokeless better adapted for pistols than the usual cartridge in this caliber, which is loaded for rifle use. I had excellent success in field shooting with 8.0 grains weight No. 80, and on target with 2.3 grains weight Hercules Bullseye.

THE ARMS CHEST

THE ARMS CHEST is an open market trading post where manufacturers, dealers, professional gunsmiths, and our own readers may advertise their goods and services to fellow sportsmen at a modest cost.

Returns are uniformly excellent—scores of advertisers report truly phenomenal results.

The rate is ten cents per word *including name and address*, minimum charge $1.50.

Groups of figures are counted as one word, also usual abbreviations made up of single characters or initials. Hyphenated words are counted as two.

Non-specific phrases such as "highest prices paid" and "top prices paid" are objectionable and cannot be accepted; the terms "fair prices paid" or "state price wanted" may be used. A *specific* price must be stated on all *for sale* ads, except that a phrase such as "details on request" may be used when listing *quantities* of similar merchandise or *real estate*.

Box number or blind ads will not be accepted. Please give your *complete* name and address, so as to insure the prompt delivery of all mail or telegraphic replies. All advertisements *must* be accompanied by cash. Final closing date is the *5th of the preceding* month.

Please print all advertisements *plainly*—we cannot be responsible for errors due to illegible writing. Spell out all descriptive words; abbreviations may lead to serious misunderstandings and impair the effectiveness of your ad.

We reserve the right to edit all copy to conform with our standards, and to decline or discontinue any advertisement which we consider objectionable. All orders accepted are subject to these conditions.

In describing the CONDITION OF GUNS advertised these standard phrases must be used: PERFECT means factory condition. EXCELLENT means new condition, implying negligible amount of use. VERY GOOD means practically new condition, implying little use, resulting in no appreciable bore wear and only minor surface scratches or wear. GOOD means moderate use with some finish worn off, only moderate bore wear with no pits and nothing worse than a little roughness in the bore. FAIR means reasonable hard service, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting. POOR means marred appearance and pitted or badly worn bore.

ARMS CHEST transactions are based entirely on good faith and mutual satisfaction. Deliberate misrepresentation or disregard for ordinary business ethics will, of course, result in expulsion from N.R.A. Membership and from the columns of the Magazine.

Purchasers who wish to examine, before acceptance, guns or equipment purchased thru these advertisements should request shipment by express, C.O.D. *with examination privileges.*

All Classified Advertisements must be accompanied by cash. Effective with the March issue, this policy must necessarily be strictly observed in order to cut down on bookkeeping entries of small accounts.

AUCTION TYPE ADS

Advertisers must state a specific price for items excepting in cases where quantities of similar merchandise are listed. The phrase "details on request" may then be used. But efforts to circumvent this policy by advertisers requesting a higher price than that listed in their classified ads, thus encouraging auction bidding, when brought to our attention, will result in refusal of further advertising from such an advertiser and the rejection of membership renewal.

FEDERAL EXPLOSIVES ACT

Under the Federal Explosives Act of 1941 *all* buyers, sellers and possessors of powder and primers (not complete small arms cartridges) must be licensed. Such license is usually obtainable from your County Court Clerk. Purchasers must submit their license, or a certified or photostat copy thereof, to the seller at time of sale.

FIREARMS & SUPPLIES—GENERAL

REM. SPORTSMAN 20 GAUGE, CUTTS COMP., rubber butt, short stock, excellent, $75.00. Marlin .22 S.S., old but new condition, $15.00. Major J. A. L. Moller, 15 East 26th St., New York City.

22 WOODSMAN 6½", PERFECT, 300 LONG Rifle, sheep lined holster, $75.00. Kennie Wireman, R.F.D. 1, Olivet, Mich.

FACTORY SELECTED REMINGTON 37AR, PERfect late model, beautiful stock, 1500 match and 1250 regular cartridges, sheepskin case, Freeland forend, trigger shoe, 10X coat (40), slings, cleaning rod, glove, tool box, etc., whole works $135.00. New B&L drawtube, Freeland stand $45.00. Charles Tropp, 406 North College, Paris, Tennessee.

FOR SALE—S&W, K-22, EXCELLENT $55.00. Heavy target muzzle loader, refreshed, accurate, false muzzle, primers and equipment $40.00. W. C. Davidson, 320 Donner, North Canton, Ohio.

COLT OFFICIAL POLICE 38 SPECIAL, 4" BARrel, excellent, hundred Western Super Police, holster, Sixty Dollars. C. E. Russell, 234 K Street, Dayton, Ohio.

SELL—VERY GOOD C.O.M. REVOLVER .22, $35.00 Ernest Johnson, 512 6th Ave., So., Virginia, Minn.

7.65MM GERMAN LUGER, 3¾ INCH BARREL. Inside excellent, outside very good. Complete with hand engraved, Army style, Heiser holster, target case, cleaning rod. $70.00. W. G. Zaenglein, Jr., Basking Ridge, N. J.

EXCELLENT .38 COLT O.M.T.H.B. 6", HEISER embossed holster, 200 wadcutters, $70.00. Excellent .22 Colt O.M.T., 6" honed action, extra custom grips $65.00. Frederick C. Bennett, 55 Highland Ave., Walden, N. Y.

GOVT. MODEL 45 A.C.P. IN VERY GOOD CONdition with Franzite grips; also 180 rounds of ammunition $60.00. Colts Officers' Model Target .38 Special, 6 inch heavy barrel, excellent condition, with Sanderson grips, also 250 rounds of ammunition $75.00. P. O. money orders only. J. E. Etherton, 2917 N. Washtenaw, Chicago, Ill.

GRIFFIN & HOWE .30-'06. MAUSER ACTION, engraved, select stock, ramp front, Lyman 48 rear excellent. $165.00. Box amm. Jack Plunkett, 321 Buchanan St., Phoenixville, Pa.

LYMAN 48 $8.00. $325 LUDWIG COMODORE Banjo, excellent, trade for Springfield Sporter, boot, Speed Graphic, or what? W. A. Haughey, Burlington, Colo.

FOR SALE: STEVENS BICYCLE MODEL 22 cal., 12¼ inch new barrel. Has medal detachable stock. Globe front. Open and peep rear sights. Fine condition. $40.00. Collect examination. W. B. Arey, Salisbury, N. C.

CONTAX WITH 50MM SONNAR F:2, EVERready case, 9 filters, 3 sunshades 12 film cassettes, Abbey flash gun, combination carrying case, Weston Master meter, Albada finder, universal finder and mask attachment, $475.00. Also 85mm Sonnar F:2 for Contax with case, 2 filters and sun shade, $250.00. 4x5 Speed Graphic with 6" Tessar, 4.5 compur shutter, 12 film holders, Abbey flash gun, Kalert rangefinder, G. E. Exposure meter, 3 filters, sunshade and press carrying case, Albert allmetal tripod with case, $260.00. Winchester 52 H.B., custom stock, Redfield front, Lyman 48 rear, good, $100.00. Edward Sudfeld, 286 Bergen St., Newark 3, New Jersey.

45 COLT AUTOMATIC, GOOD, $55.00; 45 COLT revolver 1917 like new, $55.00; 38 Colt Automatic pocket model, fair to good $45.00; 32 and .380 Colt, Savage, Mauser, & Werkes Automatics, $25.00 ea; 25 Colt Automatic, good $25.00; 38 Spec. Official Police, 4" bbl., special grip, good condition and action, $50.00 (with 1 box new shells); 22 Colt Woodsman 6½" bbl, $45.00; 30 & 9mm Lugers, 3¾" bbls. $55.00 each; 38 Spec. S&W 6" bbl, good, $50.00; .32 & .38 top break S&W and IJ revolvers, both hammerless and hammer models, $15.00 each; .445 Webley Mark VI, 6" bbl, very good, $50.00; 45 Colt revolver 1909, $25.00. For complete list, write Elliott Gillespie, 4816 South Aldrich Ave., Minneapolis 9, Minn.

38 COLT, 6" O.M.T.H.B., excellent, $70.00. Elliott Cox, Wallkill, N. Y.

IF YOUR MAGAZINE IS LATE!

THE AMERICAN RIFLEMAN is mailed from Washington, D. C., on a schedule arranged geographically to effect delivery on the same day throughout the country. That is, magazines are mailed to the West Coast on the first day, to the Rocky Mountain area on the second, and so on.

However, wartime strain on postal and transportation systems and on all publishing facilities make it impossible to maintain normal schedules. Ordinarily, late delivery means that the entire mailing schedule has been delayed. This affects all subscribers everywhere alike. Further delays in distribution to various sections may occur occasionally, but we have found that such delays are not regularly confined to the same areas.

If your magazine is late it is due to wartime conditions beyond our control and we ask your indulgence.

SELL—S&W .357 MAGNUM, 6" RIB BARREL, target sights, excellent $125.00. S&W Outdoorsman .38/44, 6½" barrel, King rib, micrometer sights, cockeyed hammer, action worked over by King, excellent plus, $100.00. Colt O.M.T., 6" HB, Perfect, $85.00. Money order—no answers before 20th of month. L. C. Carrasco, 22 B Street, Lemoore, California.

.30-'06 BLANK CARTRIDGES, $3.00 PER 100. Weston exposure meter, Model 650, $17.50. Want Winchester High Wall Set Trigger Actions, Sharp Borchart Actions. Howard Landgrave, 3432 N. Sherman Drive, Indianapolis, Indiana.

25 COLT AUTOMATIC, VERY GOOD, BLUING some worn, $32.00; 32 Caliber automatic Colt very good, $34.00; 38 Colt D. A., 6 inch barrel revolver, just reblued $47.50. 38 Colt Police Positive, 4 inch barrel, with holster, good, $35.00; 38 S & Wesson, 5 inch, barrel, perfect, reblued, excellent, M&P Model $55.00; 38 Colt, D. A., 6 inch barrel, revolver action loose, needs rebluing, good for parts, $24.95; 38 Smith & Wesson Military & Police, 6 inch barrel, revolver excellent, bluing perfect, $65.00; Factory reloads in 45 Automatic size only, $2.70 per 50, plus express charges; Franzite grips sold, rebluing and repairing. Send M. O. or certified check only. G. D. Griffin, 203 Elm St., Ithaca, N. Y.

FOR SALE—COLT OFFICIAL REVOLVER, .22 caliber, excellent, $65.00. Sharps rifle caliber .50-70, condition good, $15.00. 500 U. S. Army caps, $6.00, 3 copper powder flasks, $9.00. F. W. Daniels, Sullivan St., Charlestown, N. H.

WINCHESTER 75T, EXCELLENT, DRILLED for Weaver T, sling, extra magazine, 500 Palma Match, $55.00. Woodsman 6½", excellent, honed trigger, Murad grips, Heiser holster, extra magazine, 500 LR, $65.00. Weston Master exposure meter, leather case, perfect, $35.00. 100 Swift 55 gr, 160, 48 gr factory loads, 64, 48 gr handloads, $35.00. 295, .270-130 gr SP handloads, $40.00. 140, .30-30—170 gr SP handloads, $15.00. First money orders. J. A. Boone, Meggett, S. C.

ANTIQUE AND USED FIREARMS, MOULDS, gunsmith's tools, accessories, ammunition. Send 10¢ for list. H. A. Brand, 1008 Ingalls Bldg., Cincinnati 2, Ohio. 1-44

ONE COLT SHOOTING MASTER .38 CALIBER, excellent, Roper grips, Ideal reloading tools, 1000# 6½ primers, 2# powder, some reloads and empties, $100.00. Robert Alfred, 808 West 6th, Okmulgee, Okla.

EXCELLENT 257 ROBERTS, WINCHESTER 70, Redfield Jr. mount, no scope, 400 rounds ammunition, $165.00. Excellent—12 gauge Browning automatic shotgun, $80.00. S. H. Currier, Plymouth, N. H.

FOR SALE: WALTHER DOUBLE ACTION .32 automatic, $45.00; Wollensak 8 power, $45.00; high grade double rifle, caliber 7mm rimless, with 20 ga. barrel below, $1,500. All excellent. Andrew J. Dohnansky, 109 N. Kenilworth Ave., Oak Park, Ill.

BAKER, STERLING GRADE, TRAP, 12 GAUGE, very good, $70.00. 94 Winchester, .32-40 rifle, Oct. barrel, good, $30.00. 38 Colt Automatic, reblued, rear sight safety, good, $25.00. 45 Colt, Springfield Armory, rough, shoots good, $25.00. Ward target rifle, same as Stevens 416, excellent, $35.00. Harrington Richardson Ultra Sportsman, excellent, $35.00. Tom E. Davis, Chico, Texas.

30-'06, SEDGLEY LEFT HAND BOLT ACTION, extra work, 330 Weaver scope, $230.00; S&W, K-.22, extras, $65.00; Special four gun revolver case $30.00. Robert W. Knight, Seneca Falls, N. Y.

FOR SALE—EXCELLENT OR BETTER SUPERbly accurate 52 Winchester, heavy barrel, late model, Marksman stock, Lyman 77 front, Marble-Goss extension rear. Sling, pad, fine sheepskin case. 500 Winchester match grade .22 long rifles. First money order for $105.00 takes outfit. Richard A. Kunkel, Judson, N. Dak.

REMINGTON 12 GA OVER AND UNDER. CUSTOM stocked and engraved by Marshall Field, Chicago. French Walnut stock and Beavertail fore-end. Entire receiver and breech end of barrels engraved. Two sets, solid rib barrels, 28", full and improved modified 26" skeet 1 and 2. Single Selective trigger, Automatic Ejectors. Genuine saddle leather case and 6 boxes No. 6 Super X shells. $500.00 complete. Gun perfect shot less than case of shells—purchased Spring 1943. Jim Craton, Life Member, Davenport, Iowa.

FOR SALE: REMINGTON #513TR NEW. WITH 500 rounds .22 LR ammunition $50.00. Model 12 B.S.A. .22 long rifle in perfect condition $65.00. Niedner-Springfield, caliber .257 with scope, Lyman, good condition with 100 rounds of ammunition $90.00. 300 rounds 45 AC.P. $6.00 per hundred. Colt 22 caliber Camp Perry Model, fine condition, $40.00. Send stamp envelope for reply. Lawrence Nuesslein, 3011 Greenleaf Street, Allentown, Penna.

FOR SALE: MODEL 91 S&W PISTOL WITH Pope 10" 221R barrel and Roper grips, new, $75.00. Also a model 91 S&W with Peterson 22 LR barrel, $50.00. Send self addressed stamped for reply. Lawrence Nuesslein, 3011 Greenleaf Street, Allentown, Penna.

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Colt Officers' Target Model revolver, .22 cal. 6" barrel, perfect $85.00. Colt Officers' Target Model revolvers, .38 cal. 6" heavy barrel, perfect $85.00. Colt Officers' Model revolver 32 cal. Target sights, like new $75.00. Public Sport Shops, R-67, 13 S. 16th St., Phila., Pa.

TARGET RIFLE—MODEL .52 WINCHESTER heavy barrel with marksman stock. No sights. Excellent condition. Fired 250 rounds, price $70.00. J. T. Winburne, 5073 Tholozan Ave., St. Louis, Mo.

FOR SALE—EXCELLENT IN, VERY GOOD OUT, 12 gauge Remington Sportsman. One barrel plain 30 inch full choke, one barrel ventilated, Cutts, 2 boxes shells, $125.00 with fine trunk case. One Model 11 Remington 12 gauge Automatic solid rib, Cutts. Two boxes shells, very good, $95.00. H. Dale Weeks, Belle Fourche, So. Dak.

NEW SUPER GRADE MODEL 70, .22 HORNET, 48WJS, three boxes cartridges, new Pacific tool, Hornet dies $175.00. Trade for same in .257 or late model typewriter or fine trap repeater. O. L. Vosburgh, Underwood, Wash.

SPECIAL SALE OF NEW AND USED SHOTGUNS and rifles. List ready. Stamp Please. Kimball Arms Company, Woburn, Mass. tf

NEW OPA CEILING PRICES

We call attention to a special list of maximum prices on ammunition effective as of October 7, 1943, and supplementing the existing regulations issued by the Office of Price Administration.

Sec. 6.24 *Ammunition*. This section establishes maximum prices of ammunition, other than hand loaded or military items, for sales at wholesale and retail, *including sales by individuals.*

The maximum price for sales to an ultimate consumer of a box of ammunition not listed below shall be the price per thousand contained in the manufacturers' price lists, in effect during March, 1942, divided by the number of boxes in the thousand.

Maximum Prices for Sales to Consumers

	Price	
	Per box	Per shell or cartridge
12 gauge	$1.38	$.07
16 gauge	1.32	.07
20 gauge	1.32	.07
.22 long rifle, regular	.34	.01
.22 short, regular	.21	.01
25-35 Winchester	1.41	.09
.30-30 Winchester	1.46	.09
.30 Remington	1.46	.09
.300 Savage-Remington	1.85	.12
.32 Winchester Special	1.46	.09
.35 Remington	1.64	.10
.270 Winchester	2.10	.13

The "Pacific" Tool and the War

When ordering a **"Pacific"** Reloading Tool, if the tool is to be used in the war effort in any way, be sure to give us the details, because essential war work must be taken care of **FIRST.**

Send for the **"Pacific"** Handbook—a most valuable book for a shooter to have for future reference. It shows practically every sight—gives practical reloading and remodeling information—describes and illustrates all types of shooting accessories—136 pages—over 700 illustrations. **Most of this material is not available now.** Send 20¢ which partially covers cost of publishing and mailing. (Requests from Canada should send 25¢.)

FREE—Send for Special Free Circular on Reloading

PACIFIC GUN SIGHT CO.

353 Hayes St., San Francisco (2), California

FOR SALE: MAUSER SPORTER .30-'06, ENfield barrel, D. S. T., Redfield rear, engraved, excellent, $95.00. Parker Trojan 12-28, I. Cyl. & Mod., near excellent, $85.00. Parker V.H.E. 12-28, I. Cyl. & Mod., recoil pad, excellent, $95.00. Winchester 21-12-32, Full & Full, recoil pad, excellent in, V. G. out, $95.00. Enfield Varminter, 28" H. B., scope bases, high comb target stock, 13½ lbs, excellent, $125.00. Mauser Varminter, short action, fancy maple stock, Buhmiller barrel, Redfield Jr., Weaver 29S, low bolt, perfect $175.00. Sedgley Springfield K-Hornet, French walnut, checkered, low mounted Weaver 29S, excellent $125.00. Springfield 06, sporter barrel, new, $15.00. 30-'06 hollow point hunting loads $3.00 per 20. Herman Treptow, 209 S. Main Street, Milltown, N. J.

LEFEVER DOUBLE BARREL, GRADE E, #53120, 12 gauge, 32 inch, full, Krupp fluid steel barrels, very good condition, ivory front sight, has indicators, engraving on frame, automatic ejectors need repairs, German silver name shield inlay in stock, silver triggers, stock should have new recoil pad. Will sell for $65.00. Ray W. Brier, 740 W. Main St., Watertown, Wisconsin.

TWO COLT FRONTIERS—45 COLT AND 38-40, 4¾" barrels, very good in, good out, fifty cartridges, $40.00 each. Excellent 32 S&W C. F. pocket revolver, blue, 3" barrel, box cartridges $20.00. Archie Fisher, Montville, Conn.

COLT .25 AUTOMATIC, PERFECT, 60 ROUNDS, $40.00; Hi-Standard Model A, 6¾" barrel, very good, 500 Xpert, $60.00. James Perry, Pleasant Ave., Amsterdam, N. Y.

WINCHESTER MODEL 42, 410 GAUGE PUMP, like new, $50.00. Colt .45 caliber automatic, Model 1911, good condition, $50.00. Fred Morris, Box 132, Scottsville, Ky.

L. C. SMITH FIELD 20X26 MODIFIED, GOOD, $65.00. Baker Batavia 12x30 M/F, case hardened locks, frames, etc., excellent $45.00. Lefever Nitro Special 12x30 M/F, Single Trigger, cheek rest, cheek pad, recoil pad, good, $40.00. Savage 99F, 22 Hi-Power, takedown, good $42.50. Winchester 86, 45-70 lightweight takedown, recoil pad, swivels, very good $48.00. Winchester 95, .405 WCF caliber, good $50.00. S&W Safety Hammerless .38 S&W, very good, $25.00. H&R U.S.R.A. 22 LR excellent $35.00. Colt New Service 45 Colt DA 7½" barrel, good $48.00. Colt Pocket Model 25 Automatic, excellent, $28.00. Many others. List. Stamp. Ed Howe, Coopers Mills, Maine.

NEW ITHACA MODEL 37S, 16 GA., 28" FULL ventilated rib, Beavertail fore-end, takedown leather carrying case, 100 shells, $100.00. Jim Craton's, Davenport, Iowa.

STARGAUGED SPRINGFIELD, NEW, NEVER fired, case $90.00. B&S 4" micrometer, #66, tenths, good guaranteed accurate, $9.00. Set H.S. drills 1-60, new, $10.00. All above F.O.B. All answers considered until tenth. Paul Fedorys, 10 Hillside Ave., New York 34, N. Y.

BULLET METAL: SEVERAL POUNDS, TIN, antimony added, 20¢ pound. Several 1884 Springfields, .45-70, rifles $10.00, receiver and barrel $8.00, bore good. Peabody, Military (as issued) $12.00. Remington Rolling Block, Military (as issued) $15.00. Austrian Mannlicher, Model 95, Military (as issued) World War I rifle or carbine, $20.00. Paul Ratliff, N4912 Market, Spokane, Wash.

MATCH TARGET WOODSMAN; ROPER MIcrometer click rear sight; Henshaw Beavertail trigger; sheepskin holster; 1000 kleanbore long rifle; perfect. Ship C.O.D. with examination privilege, $100.00. Frank M. Harper, Jr., Box 1346, Raleigh, N. C.

COLT .38 OFFICERS' MODEL, HEAVY BARrel, 25 shells, perfect, $78.00; Colt .32 pocket model Automatic, 50 shells, perfect, $50.00; H&R Sportsman, holster, 50 shells, perfect $45.00; S&W Secret Service Special .38, 50 shells, $35.00; X.L. Double Action .32 Revolver, 40 shells, excellent, $20.00; Bert Lee, 2320 Humboldt So., Minneapolis, Minn.

IDEAL SIDE LEVER SAFETY

Designed for 70 Win. Operates freely. Easily installed. Complete instructions. $2.50 postpaid or installed in bolt. Available out of stock. Folder. **SPECIAL SCREWS** for attaching WEAVER 'T' mounts (regular side mounts) to guns. 25¢ pair, prepaid. **SOME TILDEN MOUNTS now available. Write.**

TILDEN MFG. CO., 2750 N. Speer Blvd., Denver, Colo.

PROTECTIVE GOGGLES

FLYING—SHOOTING DRIVING—FISHING

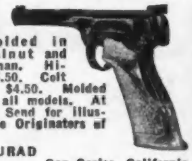
30-day Trial. Also ground to your prescription. Write for booklet.

$3.75 to $15.00

We still have a limited supply. Get yours *now* before it is too late.

W. N. BELZ, INC., Opticians, 2 E. 44th St., New York
Specialists in Fitting Shooting Glasses.

POINTER STOCKS



Molded in walnut and ebony for Colt Woodsman, Hi-Standard all models, $4.50. Colt and S & W $3.50 and $4.50. Molded in Ivory 50¢ extra, for all models. At your dealer or direct. Send for illustrated circular. We are Originators of Plastic Gun Stocks.

WALTER MURAD
1006 El Camino San Carlos, California

Yours for Life!

The many benefits of N.R.A. Membership *plus* a subscription to "The American Rifleman" for LIFE.

You pay in 24 months.

Write for application blank today.

NATIONAL RIFLE ASSOCIATION

SHOOTING AND SPORT GLASSES

CALOBAR · POLAROID · SAGE GREEN · NOVIOL
$3.00 to $12.50
Also ground to *your* prescription
Write for free folder H
STERN OPTICAL COMPANY
1284 Lexington Ave., New York 28, N. Y.

WINCHESTER 52 STANDARD, SLING, 200 shells, $75.00; .35 Remington, Model 30 Express, sling, 2 boxes shells, perfect, $100.00; .35 Remington, Model 14, case, 33 shells, $95.00; Savage Model 99, .22 High Power, case, 40 shells, excellent $60.00; Savage .22 L.R. Model 23, Lyman 348 scope, sling, 100 shells, $75.00; .22 H&R Expert Revolver, 9½" barrel, case, 100 shells, perfect, $50.00; Marlin 32-20 carbine, full magazine, excellent in, very good out, canvas case, 62 shells $42.50; Savage Model 5, case, Weaver 344 scope, 100 shells $39.00; Winchester Automatic 12 ga. shotgun, bluing worn, case, 22 shells, $59.00. Bert Lee, 2320 Humboldt So., Minneapolis, Minn.

SPRINGFIELD 03, 17A FRONT, 48 REAR, TYPE C stock, serial No. 1229085, perfect in good out, $65.00. Jim Craton's, Davenport, Iowa.

GUNS *from the inside out*

The BASIC MANUAL OF MILITARY SMALL ARMS

A COMPLETE GUIDE TO THE WEAPONS OF THE U. S., ITS ALLIES AND ITS AXIS FOES $2.00

A clear concise text, supplemented by action photographs showing how to use, care for, disassemble and assemble all types of pistols, rifles, machine guns, sub-machine guns and automatic pistols.

AN INVALUABLE TOOL FOR AMERICAN SOLDIERS OF THE PRESENT AND FUTURE

This book directly answers the challenge of United States Army statistics revealing that 90 percent of the men entering our armed forces have never fired a rifle. It provides full instructions on the use of small arms, augmented by equally vital information on disassembling and assembling these weapons in the field. A comprehensive hand book covering all small arms likely to be encountered by American troops.

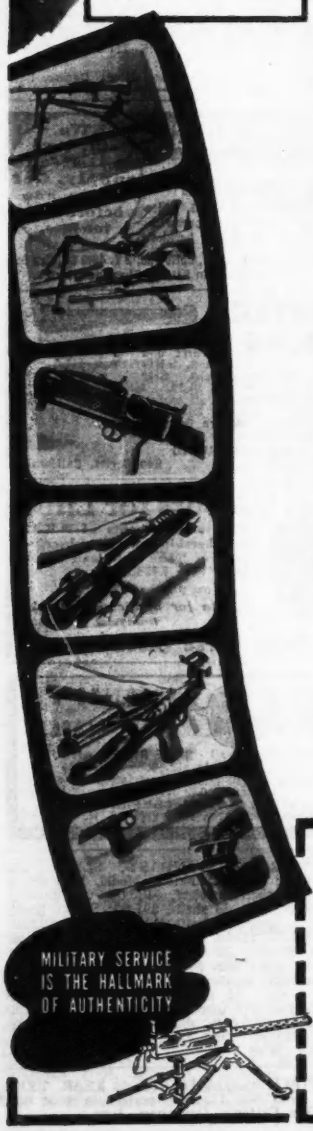
United States Infantry Weapons—Garand Semi-Automatic Rifle, Springfield Rifle, American Enfield Rifle, the new Winchester Semi-Automatic Carbine, .45 Colt Automatic, New Service .45 Auto, Smith & Wesson .45 Army, Winchester (or Remington) Riot Gun, Reising Gun, Tommy Gun, Browning Machine Rifle, Johnson Machine Rifle, Lewis Gun, Browning Machine Gun and Browning .50.

Great Britain Infantry Weapons—.303 S. M. L. E. Short Rifle Magazine Lee-Enfield, .303 Pattern '14 Enfield, .303 Rifle No. 4, Boys' .55 Anti-Tank Rifle, .455 Webley Revolver, .38 Caliber Revolver No. 2, .455 Webley Automatic Pistol, Tommy Gun, 9 mm Sten Gun, Bren Light Machine Gun, British Lewis Gun, .303 Hotchkiss and Vickers Gun.

Russian and French Infantry Weapons—All operational and instruction data on seven Russian and eight French weapons of battle proved maximum effectiveness and common usage.

Axis Infantry Weapons—Up-to-the-minute technical details on fourteen German, nine Japanese and eight Italian small arms which American troops might need to use in emergencies.

Special Section on Small Arms Usage—Elements of rifle marksmanship, revolver and pistol hints, effective use of sub-machine guns and carbines, general uses of light machine guns, automatic rifles and heavy machine guns on tripod mountings; suggestions for advanced studies.



SEND NO MONEY

To get THE BASIC MANUAL OF MILITARY ARMS without sending any money, clip the coupon and fill it out and the book will be sent you C. O. D. If, within five days after receiving it, you decide to return it, your money will be promptly refunded.

MILITARY SERVICE PUBLISHING CO.
832 Telegraph Bldg., Harrisburg, Pa.

Please send me ( ) copies of THE BASIC MANUAL OF MILITARY SMALL ARMS. I will pay postman (or Army Postmaster) the total amount for the book or books, plus actual postage charges on delivery. I can return the book within five days for full refund.

NAME_____

ADDRESS_____

( ) To save postage, check here if you enclose with this coupon a check or money order for full payment of your order. You get the same five-day money-back guarantee.

.220, .257, 6.5 & 7MM, BLANKS & BARRELS wanted, new. Will consider excellent & better. Shivell, 4323 Sunset, Los Angeles 27, Calif. tf

SAVAGE 430-16-26, EXCELLENT EXCEPT MARK on stock $55.00. Shells extra. Winchester 62 new $25.00. Milo Hill, Caledonia, Ohio.

FOR SALE: COLT OFFICERS' MODEL TARGET .38 Special, extra heavy barrel, made by Eugene Sabyan (Sabyanized Gas-pipe barrel) 6" blue, King ramp front, King micrometer rear sights, honed action, wide hammer spur, custom plastic thumb grips, sheepskin holster, excellent, $100.00. 1st money order—no trades. TRADE: Potter electric furnace, Model B, Hensley-Gibbs single cavity mould, .45 cal. bullet, 200 grain wadcutter, B&M mould block, .38 special, 130 grain walcutter single. Ideal lubricating die sizes .452 for .45 ca. bullets; Trade for 3000 small or large primers or L.R. .22 cal. cartridges or what have you? Dr. Hardy A. Paskow, 125 Broad St., Elizabeth, N. J.

ISSUE SPRINGFIELD, NEW TYPE C STOCK, new barrel, heat-treated bolt with safety vent by Sedgley, #1,092,546. Excellent inside, metal outside good, $55.00. 400 rounds F. A. '36 to '39, mostly N.M.—5¢ round, with rifle only. Underwood Standard Typewriter, Model 11, serial #4,319,318-11, excellent to perfect—$150.00. Lyman Ideal reloading tool for .30-'06, #10 complete, original box—$6.50. Charles B. Darwin, Cookeville, Tennessee, Life Member.

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Ithaca single barrel, trap gun, grade 4, ventilated rib, beavertail forend, 32" full choke, aut. ejector, perfect condition $95.00. Public Sport Shops, R-67, 13 S. 16th St., Phila., Pa.

SALE — SAVAGE SUPER SPORTER 250-3000. Nicely refinished stock, 3 magazines, receiver sight, 29S scope, T mount, sling studs. Barrel perfect $80.00, without scope $65.00. 7 boxes 100 gr. Factory ammunition, $2.50 box and some components sold with gun only. 30-30 Marlin carbine, new except chipped forend, 2 boxes factory ammunition, $50.00. Money order or certified check please. Stamp for reply. Edwin F. Chase, R.D. #2, Batavia, New York.

WINCHESTER MODEL 70. 257 ROBERTS, REDfield Jr. Mount, Weaver 29-S scope. Gun excellent plus. Scope shows little wear. New Pacific loading tool and dies. 468 N.C.N.M. primers. 89, 60 gr. H.P. 81, 86 gr., Special bullets. 1 can powder, 5 boxes factory loads, 52 empty cases, $165.00. New Enfield 30-'06 barrel, $7.50. Want powder flask especially Colt. Joseph Spicer, 17 Dewey Avenue, Wharton, N. J.

WINCHESTER 52HB, 44545, VERY GOOD, marksman stock, few scratches, 17A front, Marble Goss rear, good O'Hare case, extras $90.00, 15X Unertl 1½" objective excellent, extra 11X eyepiece $90.00. B&L prismatic scope, 19.5X, Freeland stand excellent—$75.00. Harold Cross, 50 Chestnut Street, Lockport, N. Y.

KRAG SPORTER, VERY GOOD. OILED CHECKered stock, adjustable peep rear, ramp front, sling, 15 cartridges, 22 cases $37.50. Stevens #44, .25-20 Center-Fire, action perfect, bore good, Beavertail forearm and stock checkered, 50 cartridges, also Ideal tool and mold, $25.00. Winchester low wall .22, $5.00. Weldon Pavitt, 1502 East High, Jefferson City, Missouri.

GUN CARE AND REPAIR—A MANUAL OF GUNsmithing, by Charles Edward Chapel, First Lieutenant, U.S. Marine Corps, Retired, 454 pages, 45 Plates, including many small drawings. Sent postpaid by author on receipt of $3.75. Autographed on request. Chapel, 2824 Chatsworth, San Diego 6, California.

WILL SELL 52 WINCHESTER, WITH CUSTOMbuilt Bishop stock, 12 Lyman Super Targetspot is mounted, all perfect. $175.00 complete or scope for $100.00. C. L. Walser, Norwood Street, Radford, Virginia.

WINCHESTER 94 CARBINE, 30-30, FAIR CONdition, 24 shells $20.00. Model 12B Remington Gallery Special, good, 500 22 shorts, $25.00. 23B Savage 25-20, good, 200 Hi-Speed, 230 Regular 86 grain shells, $50.00. Nearly New Wards DeLuxe prewar men's bicycles, 2 speeds, fully equipped, $50.00. Sam Phelps, Bloomfield, Iowa.

MODEL 70, .270, CUSTOM BISHOP STOCK. Checkered cheekpiece, tenite fore tip, two pieces Ivory inlays, sling, Bishop Safety. 2¾ Hensoldt scope, Redfield Jr. Mount, perfect, 100 factory loads, 140 empties, $275.00. 38 Super, perfect, Heiser holster, 500 factory loads, empties, two extra clips, $125.00. Money orders only. Ray Lankford, Member, 230 W. 6th Street, Mt. Carmel, Ill.

FOR SALE—GOOD STOCK SLIGHTLY USED shotguns, rifles, handguns, with ammunition and accessories. Send stamp for complete list. Brown and Horton, Ridge Avenue, Natick, Massachusetts.

FOR SALE—VERY GOOD PARKER TROJAN 12-30, F&M, with two boxes shells, $75.00. Savage Model 430 Deluxe O&U, 20-28" with four boxes of shells, excellent, $60.00. George Skewis, Scotch Plains, N. J.

NEW SAVAGE 219 SINGLE SHOT RIFLE, 25-20 with 100 cartridges $24.95. Jim Craton's, Davenport, Iowa.

BULL GUN—MODEL 70 WINCHESTER, 300 H&H Magnum, Lyman sights with 1½ x 8 Fecker scope, extra 12 power eye piece, 120 factory loaded cartridges, 200 (new) empty primed cases. Outfit in excellent condition, fired 40 times only. Price complete, $240.00. J. T. Winburne, 5073 Tholozan Ave., St. Louis, Mo.

LARGE STOCK OF AMERICAN AND EUROPEAN antique arms. Send 10¢ coin for new 10th edition catalog, featuring the important Colt collection of Frank A. Belden co-author of Colt history. Antique arms wanted. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Shot gun 8 ga. Holland & Holland, Custom made English DB hammerless, engraved action, cost originally $2000. Excellent $150.00. Shot gun hammer type Live Pigeon Gun by Wm. Ford, custom made in England, 32" fluid steel, modified and full choke, like new $125.00. Public Sport Shops, R-67, 13 S. 16th St., Phila., Pa.

DISPOSING OF SELECTED LIST OF FINE American single shot rifles. Send 10¢ for list and prices. J. Gilmore Wilson, Swedesford Road, Malvern, R. D., Pennsylvania.

WINCHESTER MODEL 54, 220 SWIFT, GOOD condition. 29s Weaver scope, complete set Pacific tools, Wilson trimer and reamer empties, primers, No. 5 powder measure, Pacific scales, odds and ends—Also 38 C.O.M. heavy barrel very good condition, Pacific dies shell holder. Details on request. Elbert C. Webb, Plt. 6, Bishop, Calif.

FACTORY PERFECT OFFICERS' MODEL 38, Special H.B. Sandersons grips—Holster, Ideal reloading tools and 3 boxes Kleanbore. $95.00. Max E. Rovick, 337 51st Avenue, Bellwood, Ill.

WINCHESTER MODEL 86 CARBINE, CALIBER .45-70, 22 inch nickel steel barrel, full length magazine, excellent inside, a little blue off barrel and receiver. Price $65.00. Winchester mold and reloading tool for .45-60 perfect. $8.00. Kenneth Larson, Grantsburg, Wisconsin.

WINCHESTER 1886, .45-70 PERFECT EXCEPT sight dents on stock. 37 old cartridges, $40.00. Martin Railey, Belgrade, Mont.

REMINGTON DERRINGER, PERFECT. $15.00. Colt Single Action .38-40, 7½ inch, factory hand finished action, excellent inside, very good outside, $40.00. Colt Camp Perry, 10 inch, perfect, $40.00. Remington .35 caliber Model 141, with Lyman sight, 150 cartridges, very good, at cost, $88.00. I. M. Massey, Tensleep, Wyoming.

FOR SALE: NEAR PERFECT COLT 38, O.M.T., 6" Patridge sights, grip adapter, Lawrence hand carved holster. 91 rounds, first M. O. $95.00. Brand new Weaver 330, post reticule, T mount $38.50. Will trade 1000 Kleanbore 22 long rifle for N.M.N.C. large rifle primers. Armand D. Swenson, 7022 30th N. E., Seattle, Washington.

#52 WINCHESTER BULL GUN, SERIAL #48379B. Pike trigger, Goss sights. Shot less than 1500 rounds. Near excellent. With gun only 500 EZXS, $125.00. J. M. Berry (Personal) 3917 St. Clair Avenue, Cleveland, Ohio.

S&W .357 Magnum, 3½" barrel. Almost excellent. Baughman Quick-Draw sight on King plain ramp. New shoulder holster and 2 boxes factory ammunition. $120. D. M. Weisser, 318 E. Clark, Wichita 11, Kansas.

SELL WINCHESTER MODEL 75 SPORTER, scope blocks, sling, post and bead front sights, Lyman 57E rear sight. Excellent condition. $40.00. E. Pequignot, 1412 Alger St., Saginaw, Mich.

16 REMINGTON "SPORTSMAN" WITH SEVeral shells, $100.00. Perfect. Rance Fultz, 3008 Scioto Trail, Portsmouth, Ohio.

FOR SALE—M70, .220 SWIFT, 440 WEAVER scope. 210 cart., 120 empties, 190 bullets. Accessories for B&M #28 tool. Set B&M scope mounts. Redfield #70 receiver sight. Lyman 17A front sight. Sling, sheepskin case. Excellent to perfect, very accurate, fired only 100 rds. $215.00. James Barry, 29 Kenilworth Rd., Wellesley, Mass.

FOR SALE—MODEL 70 WINCHESTER HORNET, excellent, Weaver scope, Redfield mounts, 300 rounds ammunition, $137.50. Arthur Lacks, 16 E. 34 St., New York, N. Y.

SELL—ENFIELD, NEW, AS ISSUED, NEVER fired. $60.00. Harrison Reese, 936 Rosedale Street, Baltimore, Maryland.

WINCHESTER MODEL 70 HORNET WITH 14W and 17A sights and scope blocks. Standard grade with 100 new shells, slight surface scratches on stock, inside good, Price $75.00. J. A. Brundage, Margaretville, N. Y.

WINCHESTER AUTOMATIC .401 AND REMINGton Automatic, .35, good condition, each fired two hundred times. Write for details. Geo. L. Schuyler, Richmond Furnace, Penna.

.380 COLT AUTO., EXCELLENT WITH HOLster and 985 rounds for sale complete. Stamp for details. Arthur B. Gold, 72 Mall Street, Lynn, Mass.

BROWNING SWEET SIXTEEN WITH POLY Choke—tapped for Weaver Scope, very good. 1st $100.00 money order takes it. O. R. Kroell, 5 Wolcott Rd., Winchester, Mass.

ENFIELD 1917 AND 180 ROUNDS AMMO; AS issued, $37.50. Colt .25 Auto, fair out good in; 2 boxes ammo. $25.00. H&R .32 DA, solid frame, 2", V.G.; one box ammo. $18.50. H&R .32 top break, 4", nickel, good to vg., $15.00, or will trade for similar model .22. George C. Walters, 1110 Hanna Building, Cleveland, O.

FOR SALE: HARVARD CLASSICS, CLOTH bound, 51 volumes, very good, $30.00. R&J Beck two stage English microscope, 1/6-2/3 objectives, good, with case, $45.00. Maxim 14 oz., 8X French prism binoculars very good, without case, $38.00. Zeiss 6x24, IF prism binoculars, outside fair, optically very good, with leather case, $48.00. Winchester #63, .22 Automatic, very good, $40.00. Palmer Civil War carbine, half-screw bolt, good, $20.00. Complete set Soudanese knives and spears complete with furtrimmed scabbards and amulet, very good, $50.00. All inquiries answered. Annual member. Warren J. Boe, 114-33 132nd Street, South Ozone Park 20, New York.

THERE MUST BE FRIENDSHIP WHERE THERE is mutual confidence, so business is still a series of transactions between friends . . . much faster, of course, today than it was when folks made their New Year calls by sleigh, but just as friendly. And at Christmas we take time to acknowledge that friendship with the old-time, sincerely felt phrases. MERRY CHRISTMAS—HAPPY NEW YEAR! Hershey's, R.I, Orville, O.

COLT .45 NATIONAL MATCH, EXCL. $100.00. Colt .22 Ace, excl. $100.00. S&W .357 Mag., 5 in. bbl., Heiser holster. 2 box shells, excellent, $125.00. S&W 45, Model 1917 Commercial, 2 box ctgs., and holster, excl., $65.00. K-22 S&W, Pearl grips, V.G. $65.00. K-22 S&W, V.G., $55.00. Colt .45, Model 1911, highly engraved, VG., $65.00. Luger 9mm, holster, 1 box ctgs. V. G. $50.00. S&W .38 spec. 6 in., V.G. $35.00. S&W 32-20, 6 in., special grips, V.G. $35.00. Colt .32-20 Army Special 6 in., V.G. $35.00. S&W .38 Spec., 4 in. bbl., shoulder holster, V. G. $50.00. Ithaca #2, 12 ga., ejectors, 2 set bbls, 26 & 30 in., excl., $150.00. Win. Mod. 12-20 ga. 2 set bbls., excl., $100.00. Win. Mod. 12-16 ga., excl., $65.00. Rem. Mod. 31-16 ga, excl, $65.00. Rem. Sportsman 20 ga. 26 in. ventilated rib, Monte Carlo stock, V. G. $100.00, Rem. Sportsman 2 bbls, 20 ga, V.G. $85.00. Belgian Browning O & U, 12 ga, 26 in, ejcs. V.G. $100.00. Win. 54—30-'06. Beautiful cheekpiece, Monte Carlo stock, 48W, stainless bbl, V.G. $100.00. Win 75 & 29S Weaver, excl., $75.00. Remington 37 Rangemaster, Vaver peep miracle trigger, sling, new, $95.00. Rem. .22 auto #241 & Wee Weaver, excl. $60.00; Winchester 22 Hornet, beautiful cheekpiece stock and forend, barrel rechambered by Gebby. V.G. $50.00. Genuine Mannlicher-Schoenauer 6.5 carbine, fancy cheekpiece stock sling, 3 boxes ctgs., $175.00, excellent. Reg. English "Blue Belton" female setter, handsome, car & house broken, a good grouse and woodcock dog, 4 yrs. old, $150.00 or good guns. H. L. White, Church Street, Burlington, Vt.

BRAND NEW MODEL 61 WINCHESTER PUMP .22 rifle, chambered for long, short, long rifle, Marble peep, folding leaf center, Merit eye disc attached to peep, 5 cartons .22 long rifle, first $125.00. Winchester 94, 30-30 carbine, Lyman peep, excellent, 2 boxes ammunition, first $60.00. Member. F. I. Larson, W. Park St., Marquette, Michigan.

52 HEAVY BARREL, MARBLE-GOSS EXtension rear, 17A Front, B.S.A. cleaning rod, fine carrying case, all new. Used Gov't sling. Outfit $75.00, F.O.B. R. C. McIntyre, Salem, Mo.

SINGLE SHOT LOW PRICE .22 RIFLES FOR boys rifle club, Scott County Sportsmen's Association, Davenport, Iowa.

SPENCER PROJECTOR, DELINEASCOPE FOR slides Cost $75.00, price $20.00, with two 600 W bulbs. Justin cowboy boots, 7½, $13.50, new, cost $17.00. Pair duckhunter rubber hip boots to go over shoes size 9, $15.00, New. Colt Single Action .44, 4" v.g., holster, belt, cartridges, $30.00, without belt & holster $25.00. Also .45, 7½ G. $20.00. Woodsman fully engraved, fitted case, carved holster, 100 cartridges, $100.00. Savage 22 -4C, Weaver scope, 100 cartridges, $20.00. Colt 1st Model Dragoon. Factory conversion, .44 Center, good, $60.00. R. Vail, Warwick, N. Y.

REMINGTON 30-S, .257 CALIBER, SPECIAL grade, Lyman 48, very good out, bore perfect, 20 ctgs., $100.00. Browning Special 16 Automatic Belgian 3 shot, 28 full, excellent, bore perfect, $90.00. 25 Colt Automatic perfect, 25 ctgs., $35.00. U.S. 45 Colts single action, ejector missing, otherwise fair, 48 Kleanbores, $25.00. T. H. Turner, Seaford, Del.

Split-Second ACTION

SURE SHOTS—DEAD BIRDS

Marksmen know the importance of split-second ACTION—it means BULLS-EYES on targets or KILLS on game. Don't be content with misses or lost birds. Enjoy Split-Second ACTION from your pistol, rifle or shotgun and set new records with

GUNSLICK

The SUPER LUBRICANT

Used and recommended by outstanding sportsmen. GUNSLICK is not an oil—but a super lubricant of velvet smoothness. Prevents leading and metal fouling—gives sweet trigger pull as necessary for accurate shooting.

Get "MASTER" Gun Cleaning KIT

Special Introductory Offer to Sportsmen. Contains GUNSLICK Solvent, Grease, Oil and Cleaning Patches for shotgun or rifle. If your dealer can't supply order direct.

Only $1.00 POSTPAID

OUTERS LABORATORIES
Dept. AR-1 ONALASKA, WISCONSIN

Ammunition

Clubs can now get .22 caliber ammunition for training purposes, the details of which were set out in a late N. R. A. Club Bulletin. You active members of clubs can do your country a real service by using this ammunition to give basic rifle training to men who may soon be called to the colors. It is your way to really help win the war.

We can still supply you with targets and many other items you will need to carry on this work. Write us your needs.

THURMAN RANDLE & CO.
208 N. Akard St., Dallas (1), Tex.

VAVER
DIAL MICROMETER SIGHTS
for all Rifles
Buy War Bonds Now—Buy Vaver Sights Later

Belding & Mull
RELOADING EQUIPMENT
Complete 130-page B & M Handbook, 50¢. Descriptive folder, free.
Belding & Mull, Philipsburg, Pa.

BULLET TRAP $13.00 f.o.b. Detroit
Small, compact, portable, *inexpensive*, and highest efficiency. Size 12" wide, 14" tall, 17" deep. Weight, approx. 42 lbs. For every pistol and revolver up to and including the .357 Magnum. Also for .22 caliber rifle.
DETROIT BULLET TRAP CO.
Box 56, College Park Sta., Detroit, Mich.

We Save You Money
Our No. 12 catalog, listing over 500 items. Send 15¢ in stamps for your copy today.
P. J. O'HARE
America's Largest Manufacturer and Importer of Rifle Accessories
552 Irvington Ave. Maplewood, N. J.

PISTOL STOCKS!!
Custom made for you. $6.00. Name your gun for folder and patterns. You'll like the stocks Champs use.
Lew Sanderson, 14887 Muirland, Detroit 21, Mich.

Bomber Crew Marksmen

Official U. S. Army Air Forces Photo

Well-aimed bursts of fire by U. S. bomber crews raise havoc with enemy attacking planes. By diligent practice on the Skeet field with Cutts Compensated guns the crews fast become expert free gunners. Army and Navy alike provide this essential course in wing shooting.

CUTTS COMP

Lyman Sights

Metallic & Telescopic Sights • Ideal Tools • Cutts Comp.

MIDDLEFIELD, CONN.

The Lyman General Catalog, Free. Folders on all Commercial Products. Ideal Hand Book, 50 cents.

COLT WOODSMAN, 4½", VERY GOOD, HOLster, extra clip, King sights, $45.00. Winchester 75, Target, excellent, $42.50. Art Collins, 607 West Avenue, Elyria, Ohio.

PERFECT MT. WOODSMAN, 500 KLEANBORES, $85.00. M70 Target Swift, super grade, checkered stock, Lyman 48, excellent out, V.G. in, 60 handloads, 65 empties, B&M dies, Wilson trimmer and reamer, $140.00. Fecker small game scope with mounts, excellent, $40.00. Clarence Jordan, 110 N. Hancock, Madison, Wisconsin.

PEARL, IVORY, STAG REVOLVER STOCKS. Plain and carved. List stamp. Walter R. Reed, Windsorville, Maine.

35 REMINGTON PUMP CARBINE, SLING, case, 60 belted cartridges, excellent, $70.00. Colt .45, 4¾, Frontier, 100 cartridges, very good, $45.00. Al. Greenburg, 3426 Vermont, Louisville, Ky.

BINOCULARS, 6x30 US ARMY TYPE EE WITH case, inside excellent, finish good, $45.00. Redfield 70WT excellent $7.50. BULLETS, .30 cal. 110 gr. full patch, $2.50 per 100. Cartridges, .45 ACP, $6.00 per 100. .30-06 handloads, Barnes soft point, $3.50 per box. No orders filled until January 15th. E. A. Holley, 137 E. Highland Ave., Tracy, Calif.

LIKE NEW WINCHESTER MODEL 70, .375 Magnum, fired 17 times only. Lyman 48 W.J.S. Receiver sight, 330 scope mounted by Weaver. Ideal side lever safety, new special sheepskin duck covered case. 19 boxes new factory loads, 235 grains. 16 cases fired once. 599, 235 grain Lubaloy non-fouling bullets, expanding $375.00. Less scope only: $335.00. New 32" full choke barrel on 97 Model Winchester 12 gauge pump, complete rebuild and reblue by factory, never fired since. Gun as near new as possible to make, new Hawkins pad, new special sheepskin duck covered case, 75 boxes shells assorted, chilled, $315.00. Very complete set of electrician's tools, most mechanics and some machinist. This outfit can hardly be told from new on most items. Own personal care. Need money for war effort business venture. Detail list of outfit on request, sold as complete unit only. $2,200.00. All price F.O.B. Tucson. Lee Beers, 2745 North Martin, Tucson, Arizona.

SALE: ROCK ISLAND SPRINGFIELD #400905, 17A, near perfect, $65.00. Whitneyville revolver moulds $10.00. Percussion rifle, $12.00. Stamp for full details. A. J. Bennett, 1210 Central Ave., Louisville 8, Ky.

L. C. SMITH SPECIALITY 12 GAUGE 26" Selective Single trig, ejectors, excellent. Write for description. R. R. Osmond, R 3, Cortland, N. Y.

FOR SALE: 1 MODEL 65, 218 BEE, PEEP SIGHT, very good, $45.00.; 1 Heavy Duty .38-44 Smith & Wesson, perfect $60.00; 1 Colt Army Special, 38 Special, good, $40.00. First money order. Dayton Dorn, Big Springs, Nebraska.

HORNET, M-19 SAVAGE, VERY GOOD IN, good out, new 29-S, sling, 200 handloads, 100 bullets, 100 primers $73.50. Mannlicher M-95, 8mm, good in, fair out $11.50. Vernon D. Speer, 2418 B St., Lincoln 2, Nebr.

B&L DRAWTUBE, MOSSBERG STAND, EXCELlent, $32.50. Want target scope. Will trade 500, 50 grain Sisk for 41 grain. H. W. Persons, Monsanto Chemical Co., Anniston, Alabama.

COMPLETE FILES, AMERICAN RIFLEMAN 1928-1941, $2.25 per year. Winchester Enfield .30-'06, Pacific rear, good, $25.00. 9mm. Luger, box ammunition, good, $30.00. .22 caliber Target rifle, Winchester SS. Action, by Addicks, Rome, Ga., fair, accurate, $17.00. Money orders, no trades. Robert Brodhead, Swarthmore, Pa.

30 CAL. REMINGTON MODEL 14-A, CONDItion good, 80 rounds ammunition. $65.00. 38 S&W Special, M&P, 5 inch barrel, blue, condition very good, slight holster wear on barrel. $40.00. 45 cal. Colts Automatic Government model, Audley holster, condition good, 2 extra clips, 50 shells. $60.00. Byron Slater, Oak Hill, W. Va.

2R LOVELL, 219 SAVAGE RIFLE WITH .410 gun barrel. Ammunition for both and components for rifle. Excellent $35.00. F. F. Klenk, 1132 E. 36 St., Baltimore, Md.

WINCHESTER 52 BULL-GUN, SERIAL 58,291-B, Marksman, set-in cheek piece, right hand. Marble-Goss, Vaver front, sling, keeper, trigger shoe, Mershon butt. Felt lined plywood case, cover clamps rifle and scope. Perfect, $110.00 with 500 Kleanbore. L. H. Brown, R-2, Box 158, St. Joseph, Michigan.

TWO EXCELLENT OU BROWNINGS WITH fine stocks, Bradley sights, auto ejectors, one has 30" ventilated rib MF, two triggers, $125.00. Other 26" rib. 50-55 choke, SS trigger, pad, $115.00. Want —16 Remington Sportsman automatic. Inman Turpin, 3225 Spottswood, Memphis, Tenn.

FOR SALE: TRAP GRADE, 12 GA., WINchester pump, Model 12, solid rib, full, very good, $100.00. Glen W. Yates, Osage, Iowa.

38 COLT OFFICIAL POLICE WITH HOLSTER, excellent, $50.00. C. R. Hall, 320 Parrish, Paris, Ill.

FOR SALE: D.W.M. Luger, 7.65 cal. 3¾ barrel, bore perfect, outside excellent, $50.00. 15 Power Winchester Rifle Scope overhauled by Litchert, click mounts, excellent $40.00. 180 rounds .30-'06 boattail F.A. 38 and 39 ammunition, brass clips 9¢ round. Remington-Hepburn action in white, perfect. $10.00. Lyman 48 receiver sight for Springfield $13.00. Money orders please, no trades. Frank Coyle, 1170 S. Octagon Rd., Camden, New Jersey.

FOR SALE: 12 GA. WINCHESTER AUTO., FULL choke with 2 boxes express shells, finish worn, $60.00. 23 D Savage Hornet, 39 rounds ammo., Sling, perfect, $45.00. One .38 Smith Hammerless, box shells, 4 in blue, $22.00. 38 Smith, nickel, pearl handles, box shells, 4 inch, $20.00. Both fair, first M.O. WANTED: Good Stevens Tipup. Arthur Arnett, Route 2, Albion, Mich.

FOR SALE: WINCHESTER 52 STANDARD marksman, 77 front, Marble-Goss rear, Freeland cuff, excellent $60.00. B&L prismatic 19.5 with stand, excellent $65.00. Colt Ace, very good to excellent, $55.00. Left handed coat and mitt new, all offers answered. Carroll Marlar, 1909 14th St., Columbus, Nebr.

FOR SALE: SMITH & WESSON .45 cal. Model 1917, special grips, 21 clips, 45 ctgs. excellent, $50.00. 7mm. double cavity, 150 gr. gas check bullet, molds perfect. $10.00. 7mm. and 25 cal. gas checks 40¢ per 100. 45 cal. Colt loading tool with molds, $6.00. 12 ga. single muzzle loading shotgun, full choke tube on bbl., in fine shooting condition. $12.00. Stamp please. Claud A. Miller, 245 Pigon St., Constantine, Mich.

WINCHESTER 52 STANDARD, VERY GOOD, 17A, 48J, sling, sheepskin case, excellent, 10X Fecker ¾", wooden case, 250 cartridges, $100.00. William Thiele, 5463 Potomac Avenue, Chicago 51, Illinois.

FOR SALE: SLEEPING BAGS, 36 BY 80 INCHES, filled with 100% wool, gross weight 10 pounds, with clasp down the side and around the bottom. Made with full canopy top, rolls up into a duffle bag. Priced at $22.95. No. C.O.D. orders. Passon Sport Center, 507 Market St., Phila. 6, Pa.

GUNS TO CLOSE ESTATE: THREE .30-40 Krags, Winchester Model 95, '06, Springfield '06. Winchester Model 54, 270. Two Winchester H. W. Single Shots, 303 Ross with Stevens 455. scope. Shells for above guns, Russian army rifle, 50 30-30 cartridges. Wanted Colt Ace. Details on request. E. I. Lawton, Victor, Iowa.

WEAVER SCOPES-GOOD M 29S, $10.00. GOOD M 344, $8.00. J. M. Brooks, Falfurrias, Texas.

K-HORNET, SAVAGE SPORTER, 23D, SLING, extra clip, Weaver Mount, open sights, very accurate, excellent condition. 100 cartridges, 200 bullets, 500 primers. $60.00. First money order. W. Nittler, 1454 6th Ave., San Francisco 22, Calif.

BELGIAN BROWNING 12 AUTO, CUTTS, FOUR tubes, unused, unattached Weaver 1X, B2 mounts, excellent except blueing, $130.00. New Remington 513T, $55.00. 30-'06 Pacific dies, shell holder, primer arm, new $20.00. Frank McCormick, Sonora, Calif.

COLLECTION AND SMALL DEALERS' STOCK, percussion and modern revolvers, rifles, shotguns, ammunition, etc., for sale at $750.00 which is about half of current market price. Inventory upon receipt of $1.00. Bait casting tackle, 3 rods, 3 reels, 40 lures, all used hard but serviceable, $10.00. C. L. Winter, Goshen, Indiana.

TWO KRAG CARBINES; ONE KRAG RIFLE, Marble bead front, $30.00 each. One .30-'06 Springfield, low serial, heat treated, Redfield rear, recoil pad, $45.00. Shells for rifle $2.00 box. Winchester 22, Model '06, new barrel, 100 cartridges, $20.00. Colt 32 revolver, refinished, new grips, $30.00. Two new Enfield 30-'06 barrels, $7.50 each. Redfield 102-S-$6.50. J. Temple, 1409 Chalmers, Detroit 15, Michigan.

SELL—.38 SUPER AUTOMATIC EXCELLENT, except few marks, 80 cartridges $65.00. Otto Zabel, Faribault, Minn.

2R LOVEL, 44½ ACTION, HEAVY BARREL, test fired only, 62 H.P. cartridges $37.00. Lionel freight train, 3 cars, transformer, track, new $12.50. Sterling electric razor new, $6.00. H. Eatherly, 1900 Sweetbriar, Nashville, Tenn.

WINCHESTER M-92, .32-20, GOOD, $23.00. Winchester M-86, .38-56, very good, $32.00. Winchester Low Wall SS, .32 Long, very good, $21.00. Spencer .56-56 Carbine, good, $8.50. Cartridges for collectors, catalog, 10¢. New Books: "Ammunition" by Johnson & Haven, $5.00. "The Sharps Rifle" by W. O. Smith, $3.00. McDaneld & Wheeler, Osborne, Kansas.

K-22, ROPER GRIPS, VERY GOOD, $63.00. T. M. Woodsman, perfect, Sanderson grips, $80.00. Custom Mannlicher-Schoenauer Sporter, 6.5mm, cartridges, trunk case, perfect, $110.00. Lt. D. T. Stackable, Tealls Beach, Geneva, N. Y.

6.5 MANNLICHER - SCHOENAUER, PERFECT in, 80 hunting loads, $125.00. 86 Winchester Carbine, .40-82 very good, Winchester tool & mould, $35.00. .22 Center-fire Ballard action $7.50. Model 88 Mannlicher .30-'06, proof tested, turned down bolt, white barrel, $35.00. Chas. Fluckiger, 629 Theresa St., Clayton, N. Y.

SELL—.32 FOREHAND-WADSWORTH S.A., 250 new loads $12.00. Fine Bisley $65.00. .45 Colt Single Action, $25.00. Primed shells, 16 gauge .40-82, 25-20 with bullets. C. C. Milliron, Hagerstown, Md.

COLT .45 SA FRONTIER, 7½", BLUE, PERFECT, 50 cartridges, $55.00. Clyde Winfield, 598 Madison, New York City.

FINE SAVAGE 303, 26" OCTAGON BBL., SOLID frame, checkered stock, forearm, two box shells, cover, $90.00. Colt New Navy .38 cal. revolver, blued 4½" bbl., $47.00. Remington Automatic .380, blued, $45.00. Above guns all factory new, some shells. Parker double 12-30 inch, finely engraved, Jostam pad, $85.00. Three new hunting knives, $4.00 each. William Schon, Pomeroy, Ia.

REMINGTON—KEENE .45-70 SPORTING RIFLE, 30 inch barrel, special rifle, one of a group of four, perfect $75.00. Walther H.P. 9mm double action Army Automatic Pistol, war manufacture, perfect to excellent, $100.00. John Hintlian, 273 Maple Hill Avenue, New Britain, Conn.

45 COLT FRONTIER (5) INCH BBL, BEAUTIfully carved, ivory Franzite grips, bear and steer head, 15 ctgs., $40.00. Colt .38-40 Bisley, 5½ bbl., Franzite pearl grips. 50 Remington Kleanbore cartridges, S. P., Winchester reloading tool. Fine $45.00. S&W .45 Service revolver, 1917—5½" bbl., Heiser holster, fine. $38.00. Same in good condition, Army holster, $35.00. .32-20 S&W Military & Police 6 inch bbl., Franzite ivory built in Adapter, nickel finish, 25 cartridges, fine, $37.50. Same in blue finish and buck horn grips, 25 cartridges, $35.00. S&W .32 Long, target sights & walnut grips, 6 inch bbl., spur taken off hammer, very good, $35.00. Same but Spanish make stag horn grips, fine $17.00. Spanish Frontier model .38 Special 5½ inch bbl., fine, $15.00. .38 S&W. Ideal No. 4 loading tool, very good, $4.50. 52 caliber brass mould, 2 cavity, $3.50. 25-36 Marlin reloading tool. Ideal, fine, $4.50. 5 cavity brass gang mould caliber 30" round ball, $8.00. Cartridges: 257 Roberts, 8mm Lebel, 32-40, 7mm, 7.65, 7.63 Mauser rifle cartridges, .30-'06 Govt., 40-65, 40-60, 25-36, 32-Remington, 30-30, 45 Automatic, 40-72, 44 game getter, 405, 44 S&W Special. Will sell 3 boxes .375 Magnum, regular price. All others for exchange. Want 22-218 Bee, Hornet 32-20, 25-20, and all revolver cartridges. Also antique arms, Indian relics. List of antique arms and New Lyman Tang sights, 5 cents. Send your permit if required. Vern Martin, 316 Logan Street, Steubenville, Ohio.

NATIONAL RIFLE ASSOCIATION WASHINGTON, D.C. OFFICIAL

SEND FOR FREE New Illustrated Folder & Price List

Official N.R.A. Targets LITHOGRAPHED

LOOK FOR THIS SEAL

If guess-work decisions made you lose a match, you'd have a right to be mad! Well, don't let inaccurate, guess-work targets put you off your game when you're practicing. Use OFFICIAL N.R.A. TARGETS for uniformly accurate scores. They cost no more.

- Non-glare bull's-eyes
- Crisp white rings
- Sharp, clean bullet holes
- Positive Uniformity

NATIONAL LITHO CO. 1255 25th St., N. W., WASH., D. C.

44 S&W SPECIAL TRIPLE LOCK, 6½ INCH barrel, perfect inside, excellent out except a few scratches on the butt, has target sights, Ideal reloader with bullet mold, 300 primers, 300 empty shells, powder, $75.00. Charles Leasure, 181 W. Laclede Avenue, Youngstown 7, Ohio.

MOD. 70 SWIFT, FIRED 350 ROUNDS, 4X Ranger scope, sling, 100 shells, components, for 200 reloads, $100.00. Savage Sporter, 422 Lyman scope. 100 long rifles, very good, $37.50. Winchester, 24. 20, 28" perfect, 35 shells $40.00. Claude F. Brown. Salem, Indiana.

MODEL 54 TARGET SWIFT, LYMAN 48, 17A scope blocks, Lawrence set trigger, heavy sheepskin case, 20 factory loads, components for 400 handloads, B&M dies, bullet seater, etc., very accurate, very good condition, $135.00. Model 63 Winchester, Pacific rear peep, good outside, excellent in. 500 Super-X L.R., $45.00. Eldon Thomasson, 10 Halstead, Kittery, Maine.

IN THE ARMY, .38 SPEC. OFFICERS' M. Target H. B., perfect, $85.00, soft pull. .22 Woodsman 4½", King balance rod & wgts., King T stop and honed action, special grips and trigger shoe, perfect $95.00. .44 Spec S&W 1926, 4", excellent to perfect, action honed at factory and humb B hammer, $75.00. Loading tools for .44 Spec. & Russian with 253 gr. rd. n. mould. Loading tool .38 Spec. modern bond, excellent. Ammunition 200 rounds M1-.30-'06 @ 10¢ each. 200 rounds .45 ACP Govt. Issue '35 @ 6¢, 400 rounds reloaded .38 Spec. L. P. 153 gr. WADC. @ $5.00 per H. .44 Spec. 100 @ $7.00. 200 .45 ACP reloads Bond-Ness 225 gr. sharp shoulder @ .05¢. No personal checks or examination. C. E. Conrad, 715 Gudgell, Independence, Mo.

FOR SALE: TWO COMPLETE SMALL BORE Outfits: (1) Selected Remington, 37, very good to excellent. Vaver sights, approximately 1500 rounds "hot" Super Match Mark II; B & L 65mm. Spotting 'Scope with 20x and 26x eyepieces, Freeland 'scope stand (plus extensions), excellent optics, outside good. Badger shooting kit, Parker Hale rod, rifle fork, head space gauges, gadgets. Complete—$190.00. Lyman 15x Super Targetspot with Fecker micrometer rear mount, excellent optics—$75.00. (2) Winchester 52 H. B. Goss sights, stock shortened for short-armed shooter; very accurate; inside excellent, outside good, B & L drawtube scope, excellent optics, outside fair, Freeland tripod, Westchester rifle case, Badger kit, gadgets, etc. Complete $85.00. Cpl. F. P. Archer, P. O. Box #452. Aberdeen, Maryland.

FOR SALE: S&W K-22 EXCELLENT TO PERfect, Heiser shoulder holster, $65.00. C. Brockman, 466 Kimball Avenue, Yonkers, N. Y.

SELL—TWO .30-'06 ENFIELD SPORTERS .65¢ each. new Ideal tool. Geo. Cummings, Harrison Street, Dover, New Jersey.

COLT .38 O.M. TARGET, HEAVY BARREL, Pachmayr, perfect, sheepskin case $75.00. Parker 16 good to very good, 28" barrels, Imp. cyl. and modified, ejectors, pad, single trigger, 6½ lbs., leather case, $85.00. Munroe Stiner, 151 Fenimore Road, Mamaroneck, N. Y.

SPRINGFIELD SERVICE RIFLE, GOOD, RIFLing worn, no pits, guaranteed accurate, 450 rounds clean ammunition, no split necks, $60.00. Harold E. Smith, Numa, Iowa.

FOR SALE, REMINGTON MODEL 17, FULL 20 gauge, extra F.G. cap and oil finish stock, 37 shells, excellent, $55.00. Krag Carbine, 35 cartridges, good in, fair out $25.00. Savage 23D, Hornet, Weaver 29S in B mount, Ideal tool, 100 handloads, $60.00. Mauser 8mm, Gew. 98, Sporter, homemade sights good, 20 cartridges $40.00. Remington S.C. .30-40, $12.00. Weaver 29S, Post Reticule $14.00. 700 small rifle primers $6.00. .30-'06 Ideal tool $5.00. Myron Hummel, R.F.D. #1, Frederick, Md.

NEW OFFICIAL GAUGE

This 4-way gauge is a one piece, rigid instrument that will permit you quickly to score bullet holes of .22, .32, .38 or .45 caliber.

$1.75 POSTPAID

Machined to exacting specifications and cased as illustrated.

NATIONAL RIFLE ASSOCIATION
Scott Circle Washington 6, D. C.

There is a FECKER TELESCOPE SIGHT & SPOTTING SCOPE

for every purpose, and for every rifle. For the highest grade precision Telescope, *write for folder to:*

J. W. FECKER
2016 PERRYSVILLE AVENUE
PITTSBURGH, PA.

Telescopic Sights *Spotting Scopes* *Team Scopes*

INVENTORS

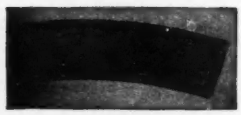
Take prompt steps to protect your invention. Delays are dangerous. Get new FREE book "Protect, Finance and Sell Your Invention," and "Invention Record" form. Preliminary information free. Reasonable fees. Conscientious counsel. Easy payment plan. Learn how to protect and sell your invention. Write us today.

McMORROW & BERMAN
Registered Patent Attorneys
251-B Albee Bldg., Washington 5, D. C.

KRAG AS ISSUED, NEW BLUE, VERY GOOD INside, 40 cartridges. $40.00. 94 Winchester .38-55, half magazine, very good out, bore shows wear, reloading tool, mould, 40 cartridges, $35.00. 45 S&W Army, new blue, good inside, 60 cartridges. $50.00. Muzzle loading target rifle, about 40 caliber rifled. 41 inch octagon barrel, double triggers, brass butt and guard, walnut half stock, 16 lbs. $25.00. Krag, 22 inch barrel, Rice peep, ramp front, rubber pad, poor inside, good out. $20.00. L. C. Smith hammer double, very good in and out, except small scratches on stock, $20.00. Movie camera, Cine kodak, 16mm, model E, 3.5 lens, $50.00; Projector-Keystone, 16mm, model D-62. $20.00. Earl Brahler, 328 Teneyck St., Watertown, N. Y.

JOHNSON AUTOMATICS
INCORPORATED

THE JOHNSON LIGHT MACHINE GUN OR MACHINE RIFLE
Caliber .30-'06—Weight 12½ lbs.—Capacity 25 shots



20 shot detachable box magazine — horizontal feed.

THE MARINES ARE LANDING

New Georgia — Tarawa — next — ? and Johnson Guns are with them—blasting closer the day when they can land again on U. S. shores.

General Information on request

JOHNSON AUTOMATICS, INCORPORATED
84 R State Street
Boston, Massachusetts, U.S.A.

TWO PERFECT MAUSERS, $115.00 EACH. Sharps Borchardt .45-70, very good, $35.00. 3 Lugers, 12" barrels, ammunition with all guns, write for details. D. J. MacDonald, 837 W. 5th St., Reno, Nevada.

CATALOG #23 DESCRIBING OVER 1500 BARgains 25¢. Modern and Antique firearms, accessories, war relics, binoculars. 6x30 Crown, $60.00. 6x30 Goerz, $68.00. 8x25 Chaumont, $52.00. Brand new 45-70 Springfield, $18.50. Plenty ammunition. $2.50. 45 Colt $3.50 box. 30-30 Savage 99, Cartridges, $55.00. 30-30 Winchester Carbine 94, $50.00. Excellent Krag Sporter, $58.00. Mauser 98, $32.00. 12 gauge Smith, $52.00. 22 S&W Straightline, excellent, $52.00. 38 Spec. OMT, $60.00. 32-20-5", M&P, $50.00. Perfect 45 Colt 1917, $62.00. Excellent 45 S&W 1917, $58.00. Excellent 45 Auto, $58.00. Many Frontiers, Autos, C&B revolvers, muzzle loaders, Kentuckies, Commando knives, new trench knives, $3.50. John Smith, Rambler Avenue, Runnemede, New Jersey.

FOR SALE—52 WINCHESTER HEAVY BARREL No. 52856B, very good, equipped with telescope, Army sling, sheepskin lined waterproof canvas case, 300 rounds ammunition, $95.00. '.45 Colt Auto., commercial, like new, $75.00. 9mm Luger 6½" barrel, good holster and box ammunition, $50.00. 9mm Luger 3½" barrel, good, holster and box ammunition, $55.00. 30 caliber DWM Luger, fair, 3½" barrel, $35.00. Send check or money order. Milton Davis, 2903 Ludlow Rd., Cleveland, Ohio.

EXCELLENT IN AND OUT 38 MILITARY COLT automatic, spur hammer, Marbles gold bead front, stag grips, 100 rounds, $49.50. Excellent to perfect 38 S&W, M&P Special Franzite grips, 100 rounds, $49.00. Excellent to perfect Colt Army 45 revolver, stag grips, 25 rounds, $47.50. 45 Colt Frontier, excellent plus, steer head grips, holster, 75 rounds, $48.00. Want 45 revolver cases. J. L. Shull, Tyler, Texas.

70 HORNET, 440 WEAVER, REDFIELD MOUNT, excellent, Ideal lubricator and sizer. 225438 mould. 1500 .22 gas checks. Pacific dies for Hornet, 700 primers, 500 cases, $140.00. Winchester 52 Standard, 17A Front, excellent, $50.00. Zeiss 8x30 central focusing Deltrentem, very good, $75.00. S. Kores, 4477 S. Burrell St., Milwaukee 7, Wisconsin.

CUSTOM SPRINGFIELD SPORTER BY OWEN Bros., DeLuxe checkered walnut. Randall butt plate, 48 rear, bbl., tapered from receiver. Pritchard detachable sling swivels. Excellent in-out. Beautiful job. 40 rounds, $100.00. Bert Orne, Ortonville, Minn.

WINCHESTER, SUPER 70 HORNET, 48 LYMAN, 5A scope, Lyman mounts, excellent, 100 rounds, $159.50. Sedgley, 220 Swift Mannlicher, 48 Lyman, Noske #1 scope, Noske mounts, checkered stock, cheekpiece, Q.D. sling, excellent, accurate, 40 rounds $189.50. Winchester 12 trap grade, 12 x 30 full, solid rib, excellent, $89.50. Remington 141, 35 caliber, shells, new $85.00. Winchester Late 52, 17A, 48 Lyman Marksman stock, fine sling, case, Mossberg scope, excellent, $79.50. Colt Officers' Model, .38 special, with shooters case, excellent, $79.50. 45 Colt automatic, good, $45.00. 380 Remington, automatic, 40 rounds $25.00, .32-44 S&W Russian target, some ammunition, excellent, $37.50. 30 Luger, 50 rounds, excellent, $47.50. 7X35 B&L binoculars, C. F., excellent, $134.50. Want in trade Hi-Standard E, antique Colts. Andrew Spina, 514 Main St., Towanda, Penna.

GENUINE 16 BROWNING ENGRAVED AUTOmatic, 26" barrel. Excellent in and out, case, recoil pad, beautiful stock, 75 shells, $125.00. Factory ammunition .30-30, .25-20, .30 Remington, .35 Winchester, .30-'06. Trade. Want 22 target rifle. Mahlon Delf, 8068 Fareholm Drive, Hollywood 46, California.

MODEL 75 TARGET. GOSS EXTENSION. GOSS super vision front, perfect, $55.00. Model 12-16, full, excellent, box shells, $60.00. 417 Walnut Hill, Goss extension 17A front, excellent, $65.00. 52 Standard, Redfield front, leaf rear, 4X Ward scope, trunk, very good, $56.00. Krag Sporter, Pacific rear, 65 shells, excellent, $45.00. Luger 7.65, 50 bullets, excellent, $55.00. Bert Eric Johnson, Iowa Falls, Iowa.

WINCHESTER 52 PERFECT IN, V.G. OUT, Lyman Super Targetspot 12x perfect, 500 Xperts, $135.00. Colt SA, .32-20, good, Audley, $30.00. Sedgley-Mannlicher-Schoenauer, 257, DeLuxe stock, perfect, 20 cartridges, $125.00. Dr. George Fielding, Glens Falls, N. Y.

.32 SAVAGE AUTOMATIC, EXCELLENT, 30 cartridges, $21.00. Ideal No. 3, 303 Savage reloading tool, $4.50. Lyman Peep Sight for Remington Model 12, $3.50. Jesse George, Brandon, Iowa.

1 PAIR RUSSELL CHIEF BOOTS 16" SIZE 8, excellent $15.00. .30-'06 handloads, Ideal blocks #311413. Henry Griffin, R. D. #1, Bridgeville, Pa.

FOR SALE—WINCHESTER 75, FACTORY sights, sling, excellent, $38.00. .38-40 Colt Bisley, 5½", very good, some blue worn off, $45.00. Arthur E. Phillips, 5 State St., Potsdam, N. Y.

COLT .22 OMT, LATEST MODEL, PERFECT inside, excellent out, grip adapter, $85.00. Service .45 automatic M1911A1 new barrel, good outside, $75.00. S&W .45, Model 1917, grip adapter, excellent, $70.00. 6x30 Prismatic Type EE Army binoculars, optically, mechanically, perfect, $65.00. Lt. Col. R. K. Berkenfield, Hq. 19th A.I.B., APO 446, c/o Postmaster, Nashville, Tennessee.

COLT OFFICERS' MODEL .38, VERY GOOD IN, bluing worn out, with 230, .38 Long Colt, $45.00. Marlin 27-S .25-20, good in and out, open and peep sights, 168 rounds ammunition, $32.50. Marlin 81, .22 SL or LR, excellent in, good out, with sling and Marlin 4X scope, $20.00. H&R Special, 944, heavy frame, perfect, $25.00. Lyman 48 for Winchester M70, $12.50. One hundred, 150 gr. soft point .270 bullets will trade for 100 or 130 gr. same. One case 12 gauge trap loads, will trade for M70 Hornet. G. F. Snider, Box 213, Connersville, Indiana.

MODEL 70, .22 HORNET, LYMAN 48WJS, sling, 200 cartridges, perfect, $125.00. Remington Model '08, .35 Remington, very good to excellent, 15 shot magazine 73 cartridges, $80.00. Winchester 94, Carbine, .32 Special, 40 cartridges, perfect, $65.00. Single action .357 Magnum, factory condition, stag grips, 100 cartridges, $85.00, Bisley .38-40, 7½", good, $25.00. Colt Commercial, .45 auto., good, $55.00. .45 auto. cartridges, $6.00 per 100. S&W, M&P, .38 Spl, 4" holster, very good, $65.00. Colt .380 automatic, holster, box cartridges, excellent, $45.00. SELL OR TRADE—800, .32 Remington automatic cartridges, 900, .38-56 WCF, 220, .35 Winchester, 60, .30-03, 400, 9mm Luger. All fresh in factory boxes. Price for stamp. Firearms purchased, single pieces or entire collections. Describe and state price wanted. H. L. Remmel, 1622 Center Street, Little Rock, Arkansas.

35 NEWTON RELOADING OUTFIT, COMPLETE with B&M tool, Ideal die, Pacific scale, plenty cartridges, cases, bullets, primers, powder. Original .30 Newton barrel, perfect, unfired, $20.00. Earl Burgess, R. F. D. 7B, Waxahachie, Texas.

S&W 6" MAGNUM, WHITEX FRONT SIGHT, custom stocks, small crack, 200 Magnum handloads, 50, 38-44 handloads, 200 new Magnum primed cases, Hensley mold, new speed holster, excellent, $160.00. S&W K-22 Outdoorsman latest model, Magna stocks, extra stocks, Parker Hale rod, 250 long rifle cartridges, all excellent, $80.00. Winchester Enfield remodeled, checkered stock, cocks on opening, Pacific rear micrometer, 200 rounds M-1, excellent, $85.00. M-2 Springfield, perfect, extra magazine, 250 rounds long rifle, $85.00. Money order please. F. E. Schulte, 4602 Midland Avenue, Cincinnati 5, Ohio.

FOR SALE: REMINGTON WOODMASTER, .300 excellent, $86.00. Sedgely short action Springfield Sporter, .218 Bee, 48 rear, ramp front, 48 shells, 48 reloads, handsome excellent gun $110.00. Savage 23D Hornet, 400 cartridges, 29S Weaver, excellent—$75.00. High-Standard H-E, 4½" 1000 Kleanbores, excellent—$70.00. Winchester 52 sporter, 1000 Kleanbores, excellent—$125.00. Fecker 1", 8 power, click mounts, excellent—$40.00. Issue Mauser KAR. '98, reblued, mechanically perfect, fair bore, all numbers correspond—$30.00. Enfield, cut down stock, bridge properly milled, excellent in, reblued, 200 cartridges, no sights, Bishop blank—$50.00. Remington-Keene .45-70, sporting model, very good or better, fine specimen, $25.00. Standard Automatic, .35 Rem., poor —$20.00. St. Etienne 1917 auto loader, 8mm, fair out, good in, collectors piece $55.00. Vickers M.G. legalized aircraft model, barrel jacket removed—$25.00. Also Civil War Carbines, percussion pistols, loading tools. No trades. No sales until January 15, 1944. William Ruger, 85 Imperial Avenue, Westport, Conn.

FOR SALE — 1917 COLT .45, NEVER FIRED $55.00. 1917 Smith & Wesson never fired $55.00. O.M.T. .38 Special, smoothed action, excellent, $70.00. O.M.T. 22 recessed Cylinder, excellent, $70.00. Model C. Hi-Standard, excellent, $37.50. Colt .45, Model 1911, reblued, very good, $47.50. Model 1897, Marlin, caliber 22, excellent, $37.50. Smith & Wesson, caliber 44 Special, 5" barrel, King red ramp front, White outline rear, humpback hammer, checkered Ivory Magna stocks, excellent, $75.00. Colt .25 Automatic, factory box, $25.00. 1917 Smith & Wesson, blue worn out, very good to excellent in, $45.00. Colt 380 Automatic, very good, $32.50. Once fired 38 Special cases $7.00 per M. C. H. Lawson, 89 Myrtle Ave., Edgewater, N. J.

220 SWIFT MODEL 70 WINCHESTER, 4X ZEISS Zielvier, barrel length, 26¼", handmade maple stock, beautifully decorated, cheek rest, rubber butt pad, gun and scope, perfect condition, cost $650.00, price $450.00. Available 240 cartridges, Miller .257 Magnum, 24¼" Remington Express barrel, 4X Zeiss Zielvier. Handmade Manzanita stock, cheek rest, rubber butt pad, perfect condition. Cost $625.00, offered at $425.00. Available 8 boxes cartridges. Eddystone Enfield walnut stock, 2½X Zeiss scope, offered at $200.00. Lewis T. Shelton, 847 So. Bronson Ave., Los Angeles 5, Calif.

WINCHESTER #52, SCOPE BLOCK, LYMAN 48 rear, 17A front, sling, excellent, $60.00 Winchester 42 skeet 410 gauge, straight grip, excellent, $60.00. 30-40 Krag Sporter, fair, $35.00. L. C. Smith field grade, 20 gauge, $75.00, perfect Bausch & Lomb 7 x 35 ind., and case perfect, $140.00. B&L 4X, $25.00. M. H. Story, 270 Ellis, Corpus Christi, Texas.

KRAG SPORTER, GOOD, NO TIP OR BUTT-plate, Weaver 440, Redfield 102K. Lyman 17A, Ideal tool, 308403 mould, Wesnitzer primer cleaner, 34 cartridges, 110 primed cases, 130 empties, NTS stock partly inletted, $75.00. Winchester 52 Speedlock, good, $35.00. Winchester Hiwall, .38-40, good, $15.00. Remington Creedmoor, peep front, vernier rear, 44-90, 40 empties. 20 bullets, tool, very good, $25.00. Walnut Hill Hornet, Malcolm scope, dust caps, 75 factory, 75 primed, 500 mtys., $75.00. Winchester 53, .25-20, Ideal tool, 70 primed, 75 mtys. 60 factory bullets, good, $35.00. Enfield .30-'06, Wollensak scope, good, stock poor, Ideal tool with 7mm attachment, 3118 mould, $25.00. Winchester 1873, excellent, .44-40, 265 Factory, $45.00. Springfield 45-70s, issue, good, carbine poor, 250 factories plus mtys, Ideal tool, mould $30.00. First money order, Express collect. R. Meyer, 398 St. Lawrence, Buffalo, N. Y.

COLT .45 AUTOMATIC, ENGRAVED, COMmercial, pearl grips, carved eagle on right, new Heiser holster and clippouch with 2 new clips, patridge rear, gold bead front sight, blue, excellent, $100.00. S&W, single shot target, 10" bbl., target sights and grips, King balancing tube and extra weights, caliber .32 S&W long, fine, $40.00. S&W Schofield, caliber .32-44, target sights, nickeled, Ideal hand tool with mould, excellent, $40.00. Zeiss, 8x30 Deltrentem, case, excellent, $125.00. Drum magazine for 9mm Luger, $5.00. Robert P. Wootton, 514 N. State Street, Chicago, Ill.

TWO COLT OFFICERS' MODEL, .22 AND .38, excellent or better. .38 has heavy barrel and hand honed trigger. $75.00 each. 1200, .38 Special reloads, full charge, 158 grain, conical bullets, $2.00 box. Byron Engle, 3018 East Seventh, Kansas City, Missouri.

SERVICE MODEL ACE WITH 45-22 CONVERsion unit, excellent. 3 holsters, 4 extra 45 clips, double leather clip pocket, $117.50. 99 Savage .30-30, recoil pad, Redfield 70 receiver sight, very good, 70 Silver-tip cartridges, $70.00. 39-A Marlin, Lyman 56 receiver sight very good, $41.50. Abram Epstein, 267 Carpenter Ave., Newburgh, N. Y.

INTERCHANGEABLE BARREL COMPLETE. M12-20-26" cylinder, perfect, $28.85. Weaver 330, crosshairs, $31.90, same Lee dot, $37.90, 29s $14.30, all perfect, T mounts. Roper grips for Shooting Master, perfect $10.00. Ivory grips for Official Police, perfect $10.00. Redfield Jr. mount for 23 Savage 22mm, perfect, $11.50. G&H single lever mount for Springfield, 22mm, very good, $22.00. Harold Newby, 736 Garfield, Denver 6, Colorado.

SPRINGFIELD SPORTER, NICKEL STEEL action and bolt. No. 1367788. Star gauged. Original test card and machine rest group with rifle. Lyman 48 rear sight. In perfect condition, $80.00. Plenty ammunition, Dr. H. L. Davisson, Yellow Springs, Ohio.

WINCHESTER MODEL 12, 28 GAUGE, MODIfield, perfect, more than case shells (500) $102.00. Marlin 20 gauge, Model 90, over and under, perfect one-half case shells, $86.00. Winchester 1886, caliber .45-90, action perfect, barrel pitted but shoots perfectly, 2 new boxes factory load shells, $27.00. Johnson Sea Horse, Model H.S., 2½ H.P., alternate twin, perfect condition $128.00. Motorola radio, Model 301, A $52.00 one, fits all cars but switch is for '41 Ford, is probably perfect, only used few days, $40.00. Satisfaction on above. Want .270 Winchester and Model 21 Winchester, straight grip. Bert Brush, 31 Alderson, Billings, Montana.

FOR SALE—WINCHESTER MODEL 52 SPORTer, Weaver 330 scope, low mounts by Griffin and Howe, excellent to perfect, $162.50. Zeiss 10 x 50 binoculars, Dekarem, case, like new, $225.00. J. W. Daugherty, Columbus, Indiana.

MODEL 52 STANDARD WITH LYMAN 3X-438 scope and mounts, condition excellent to perfect, 1" sling, small scratch on stock, 300 rounds of ammunition. Rifle has been kept in canvas cover, fired about 150 times, price $100.00. T. L. Brannan, Green River, Wyoming, P. O. Box 683.

COLT MATCH TARGET, PERFECT IN, EXcellent out, $74.00. Colt .22 OMT, perfect, holster, $68.00. Western Long Range, double, 16 gauge, excellent, 50 shells, $33.00. Frederic Gombash, 196 Fourth Street, Passaic, New Jersey.

SAVAGE O&U 12 GAUGE, 30 INCH FULL AND mod. perfect condition $65.00. 50 rounds .30-'06, 39 empty '06 cases, 86, 180 gr. bullets, 30, 110 grain, the lot $10.00. Lyman 77 front $2.50. Money Order please. Wanted—New Krag barrel. E. F. Hammel, Sumner, Iowa.

REMINGTON 37, REDFIELD FRONT, REMINGton rear sights, outside good, inside very good or better, accurate, with 500 Palma Kleanbore, 500 Western, $60.00. H&R., U.S.R.A. Model, 7" barrel, very good, with 500 Remington Kleanbore, $30.00. Mossberg Spotshot, Jaymac stand, excellent, $25.00. Money Order please. John England, 115 Clifford, Muscatine, Iowa.

WINCHESTER 70 SWIFT, HEAVY BARREL, standard stock, new barrel, factory grease, no sights, 300 factory cartridges, $125.00. Winchester 70, 300 Magnum Bull Gun complete, perfect, 136 factory cartridges, $125.00. Winchester 70 Swift Standard very good, 200 factory cartridges, $90.00. Sedgley .30-'06 speedlock, light weight, Lyman 48, excellent, 200 factory cartridges, $104.00. Krag Lovell, original, checkered cheekpiece stock, perfect, 1000 Sisk bullets, 1000 primers, $85.00. Winchester Hi-Wall 2 R, S S Trigger, no sights, very good, 1000 Sisk bullets, 1000 primers, $90.00. Hensoldt Binoculars 7x50, case, perfect in, excellent out, $135.00. Sam Bloomfield, 1301 Greenwood, Wichita, Kansas.

FOUR HORSE POWER NEPTUNE MODEL 1044X, very good, $140.00 cash. 38 Colt automatic, Heiser holster, 118 rounds ammunition, excellent, $72.50 cash. C. D. Hopkins, 707 N. 8 E., Provo, Utah.

6.5MM MANNLICHER-SCHOENAUER, CLOSE to factory condition. Unfired except sighting-in. Cheekpiece, DST, butt trap, etc., no alterations. 30 American, 100 imported cartridges, all softnose. $165.00. Wayne Hunt, 600 First National Bank, Minneapolis, Minn.

500, FA34 BOATTAIL, 10¢. J. V. ELLIS, 3127 Robinhood, Houston, Texas.

38-44 S&W OUTDOORSMAN, perfect, with one leather and one sheepskin holster, 225 Kleanbore, 950 fine handloads all .38 Special, 200 primed cases, 340 fired cases, 2000 Winchester 108 primers, outfit $125.00. 29S Weaver, T1 Mount, excellent, $15.00. James Hinson, 235 Columbia Circle, Waterloo, Iowa.

FOR SALE—REMINGTON 12 AUTO., VERY good, 4 boxes shells, $80.00. Stevens Walnut Hill, very good, 1000 L.R. $35.00. Colt 38 Auto., Military, 75 shells, good, $40.00. R. J. Martin, Roscommon, Mich.

FOR SALE—7MM, BULL GUN, $100.00. COLT revolver, OMHB, 100 38 Sp cartridges, holster, excellent, $85.00. Colt revolver 45NS, very good, 50 cartridges, $45.00. Send stamp for list, rifles, scope sights, cameras. Life Member, Capt. Pierce, Norwich, Conn.

SELL—EXCELLENT MATCH TARGET WOODSman, $75.00. Also excellent 4" Colt Official Police .38 Special, King blue job, King adjustable sights, semi-ramp, $50.00. Tom Street, 3284 E. 149th, Cleveland 20, Ohio.

COLT POLICE POSITIVE .32-20, 6", WALNUT grips, bore slightly rough, finish worn, mechanically very good, 30 cartridges, holster, $25.00. Stamp please. J. H. Lee, Bloomfield, Iowa.

PHOTOGRAPHIC CATALOG

offering a very fine and unusual collection of weapons consisting of many rarities in wheelock, miquelet lock, flintlock, pill lock and percussion pistols. Also, named sets of dueling pistols, multi-barreled flint pistols of Museum quality, dagger and sword pistols, blunderbusses, wheelock rifles, plus many fine muskets and rifles, from the flintlock to the bolt action types. Also a fine collection of Japanese weapons and other daggers and swords of every description. Many fine pieces of armor, war relics, medals, ammunition and cartridges for collectors. Price for the catalog is 50¢, postpaid. Coin, please. Our new city shop is just two blocks from Times Square, on 44th Street, between 5th and 6th Avenues. Shop hours are from 10 A.M. to 6 P.M. every day except Sunday. Let us sell your collection or single pieces of firearms, weapons, etc., on consignment. Realize a far better price than selling outright. Write first for particulars.

THOMAS WORONIECKI
MUrray Hill 2-6182
47 West 44th Street New York 18, New York

There are now ready for delivery to buyers three booklets in the popular gunstocking series

FIREARM DESIGN & ASSEMBLY

by Alvin Linden

No. 1. Inletting the Stock Blank with Pattern Sheets of Springfield ..... Price $2.10

No. 2. Shaping the Inletted Blank with Pattern Sheets of Win. Model 70 ..... Price $2.10

No. 3. Finishing the Gunstock with Pattern Sheets of 1917 Enfield ..... Price $2.10

These Pattern Sheets are the last word in practicability and application. *Send for Descriptive folder.*

THOMAS G. SAMWORTH

Plantersville, South Carolina

BUY THESE NOW!

REMINGTON Auto Shotgun, 5 shot, 12 gauge, 20" cylinder bore, never used, like new.....	$61.75
Same as above with adjustable choke, 26" overall.	71.75
7.62 mm Russian Ctges., M.P. Bullet(new stock) box	2.40
New Cartridge Clips for 7.62 Russian Rifle, each..	.25
303 British Cartridges, Metal Point Bullet, box..	1.50
New Barrels for .45 Colt Automatic.....	3.95
New Magazines for .45 Colt Automatic.....	1.65
Regulation Holsters, .45 auto. 1911 Model.....	2.75

Other New Colt Magazines and Barrels. Advise Wants.

● WE BUY GOOD USED GUNS FOR CASH ●

Send 3 cent stamp for list Rifles and Revolvers

HUDSON SPORTING GOODS CO.
R-52 Warren St. (82 Deposit C.O.D.'s) New York

COL. WHELEN'S BIG GUN HANDBOOK & CATALOG

$1 POSTPAID REFUNDED ON YOUR 1st PURCHASE OF $5 OR MORE

176 pages fully illustrated. Articles by leading experts on all phases of rifle, shotgun and hand gun shooting. Ballistic tables, angles of elevation, small bore records, world's record fish and a wealth of interesting data.

PARKER-WHELEN Co., INC R-1 827 14TH ST., N. W. WASHINGTON, D. C.

FOR THE PERFECT BORE
FIENDOIL

Perfect Rust Prevention—Cleans and Provides Protective Film
Perfect Fouling Removal—Affects No Metal But Lead
McCambridge & McCambridge Co.
Baltimore

USED GUNS BOUGHT SOLD-TRADED
State make, model, caliber and condition of guns offered or wanted.
"The Shooter's Bible", 512 pages—$1.00
STOEGER ARMS CORP. 507 Fifth Ave., N.Y.

STITH MOUNT Protects Your Weaver Scope

"INSTALL-IT-YOURSELF"

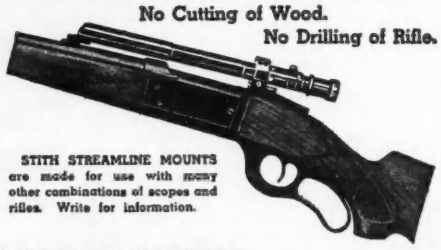
Easily Installed With Only a Screwdriver.

No Cutting of Wood.

No Drilling of Rifle.

A steel shield over the front end of the scope protects it from accidents, rain and sun; it stiffens the scope tube; eliminates the catch-all nuisance by closing the opening between the end of the scope and the rifle barrel.

STITH INSTALL-IT-YOURSELF MOUNTS are available for use with Weaver 330-440 and Lyman Alaskan scopes on Winchester M70, Savage M99, and Remington M5 13-S rifles. Also for Weaver 29S scopes on Winchester M75 Sporters and Savage M23 rifles.



STITH STREAMLINE MOUNTS are made for use with many other combinations of scopes and rifles. Write for information.

PRICE, $12.00

A SCOPE IS ONLY AS GOOD AS ITS MOUNT

M. L. & M. J. STITH MILAM BLDG. **San Antonio, Texas**

Bean's Hi-Cut Heavy Sandal

Working rubber to wear over shoes. Durable, heavy rubber that can be used for all kinds of outdoor wear including hunting. Sizes 6 to 12. Wide width. Half sizes. Color, dull finish Black. Price $1.68 postpaid. Write for New Catalog.

Not Rationed

L. L. Bean, Inc., Freeport 27, Maine

Mfrs. Hunting and Camping Specialties

RIFLE DRILLS WANTED

.22 Caliber, complete with shank not less than 40 inches long, new or used, in good condition.

BARRELS FITTED TO YOUR ACTIONS

I have a few barrels left and during the winter will be able to furnish barrels fitted to customers actions in calibers .22 Varminter, .257 Roberts and .30-'06.

J. R. BUHMILLER

Eureka **Montana**

Send Today Still $1 only

THE SHOOTER'S BIBLE

NEW . . from cover to cover

512 PAGES!

New Revised Edition, with latest up to date information. Tells you what is available! Beautifully illustrated. MANY Full-Color Pages. Latest Factory Prices. Revised Ballistics. Bigger Book Section, includes Technical Books for Shooter and Defense Worker. Enlarged Parts Section.

USED GUNS Bought AND TRADED

Don't delay. Send a DOLLAR BILL, check, M.O., Coin or Stamps for "The Shooters Bible" No. 35 TODAY.

19,216 Items 8,926 Pictures

STOEGER ARMS CORP.

507 5th Ave. (at 42nd St.) New York, N. Y.

X-RING BULLET TRAP

1. Stops bullets by Friction
2. Saves the lead for reuse
3. The SAFEST backstop known

Only X-RING offers the centrifugal trap. Safe for all types of shooting—heavy or light caliber. Portable. Self-contained lighting. Saves lead in clean, usable condition. FREE illustrated folder.

X-RING PRODUCTS

503 North St. Peoria, Ill.

35 WINCHESTER '95, LYMAN PEEP, FOLDING rear, Ivory front, bore perfect, outside about good, 10 boxes Rustless cartridges, $80.00. .38-40 Marlin '94, accurate, 30 cartridges, $20.00. Russell Elder, Griffin, Ga.

COLT DETECTIVE SPECIAL, 300 KLEANBORE, $65.00. Bankers 38 Special, 200 Kleanbore, $60.00. 38 Colt Positive 4", pearl grips, 100 Kleanbore, $40.00. Military Mauser 30 caliber pistol, 100 cartridges, clips, holster, $50.00. Steyer automatic 9mm, very good, $36.00. S&W Kithag, .22 caliber, excellent, holster, 100 rounds, $55.00. S&W 44 caliber topbreak 6" nickel finish, 100 rounds, $27.50. Remington "Derringer" 41 caliber, nickel finish, 20 rounds, $18.00. Iver Johnson, Target Mod. 22 caliber, 6", 200 Kleanbore $22.50. H&R 22 caliber 6", 200 Kleanbore, canvas holster, $22.50. Luger 32 shot drum $5.00 and $6.00 each. No C.O.D. Webley Mark VI changed for 45 automatic cartridge 6", very good, holster, 200 rounds, $40.00. Webley Mark "V" 455 caliber 4" excellent, holster, 50 rounds, $27.50. Morton's, 40 Fulton Street, New York City.

GOOD '03 SPRINGFIELD BARRELS, NOT JUNK, $3.50. 30-'06 B.A.R. barrels, $3.50. New unfired .45-70 Springfield rifles, $16.50. .45 A.C.P. issue, good, $47.50. 16 gauge D. B. M. L. Shotgun, clean, $10.00. 8 gauge single, $5.00. Army decapping cleaning outfit, 30-'06 new, $8.50. .45-70 instruction manuals, 85¢. Army, wood cleaning rods, 75¢. Steel ammunition boxes, $1.50. Pup tent, $3.50. 200, .38 Long Colt, $8.00. .41 Swiss #8 shot, $1.50 box. 20,100 .45 A.C.P. reloads, good, $5.00. 1/6 H.P. A.C. Motor, $7.50. War relics and obsolete cartridges for collectors, write. Will buy military rifles, war relics, handguns. R. Reppert, R. D. #4, Norristown, Pa.

45 AUTOMATIC, EXCELLENT EXCEPT SMALL patch nickel off frame, honed action, target sights, four magazines, new Lawrence holster, 300 custom loads, $80.00 or will trade for high grade binoculars. 120 fired Krag cases with primers $5.00. 40 cases and 15 reloads, 25-35, $2.50. 30 assorted big game cartridges $3.00. 15 odd 2R cases, loads, bullets, $1.50. Lyman 57W, good, $5.00. Full alphabet ⅛ inch steel stamps, $4.00. All above $100.00 prepaid. Regular Krag, Springfield, Enfield, mansprings, 25¢, $2.00 dozen. Many Krag parts. Special strong mansprings for speed action job on Krag. Springfield, Enfield $1.00 prepaid while they last. Weaver side mounts with screws $1.50 prepaid. Kenneth Clark, Madera, California.

WINCHESTER 54, SWIFT, 10X FECKER, REDfield Receiver sight, very good, $135.00. Colt .22 Officers' Model, $55.00. B & M Measure $8.00. Primers, other tools, details on request, stamp appreciated, James Myers, R5, Mansfield, Ohio.

AMMUNITION, .30-30, 250-3000, 300 SAVAGE, Sell or exchange for Redfield 70 T". C. H. Porter, 363 Cedar, Aurora, Illinois. Phone—2-4079.

SELL OR TRADE

ALL PERFECT — WINCHESTER MODEL 21, 12 gauge, selective trigger, automatic ejectors, 30 inch barrels, full and modified, $125.00; model 40 automatic 12 gauge, checkered forearm and stock, recoil pad, Weaver 1X scope and choke, 5 choke tubes, $140.00; Nitro-Express with guns $2.00 per box. Genuine BSA Martini Hornet, Lyman sights, barrel drilled for scope $75.00, 150 cartridges, 40 empties, 1000 primers, 4 lbs. powder, New Pacific loading tool (incomplete) $50.00. New Weaver 440 scopes, Lee dot, Tilden rings, $48.00. Lyman 48WJS sights, $8.00. Cash or any of above for Zielvier Scope. Give full description, terms of trade, first letter. Louis Lutfy, 903 Professional Building, Phoenix, Arizona.

1000, .276 PEDERSON PRIMED EMPTIES, $2.00 hundred. Want Savage 250-3000 or .300 Model E.G. or T., or 70 Winchester, excellent for cash. M. G. Pratt, 1133 East Portland, Phoenix, Arizona.

SELL .30-40 KRAG, inside and action good appearance and stock poor, Lyman rear, $25.00. Wanted Model 70. 30-06. Perfect. Bradley Young, 707 West Elm Street, Deming, New Mexico.

FOR SALE—EMPTY FIRED ONCE REMINGton .257 Roberts cases. 10¢, some with primers. Wanted— Hi-Standard Model E, 4" barrel. E. L. Jewett, Member, 1221 Evergreen, Burbank, California.

FOR SALE—BULLSEYE POWDER $2.00 PER pound No. 3031 and 4064 $1.50. Wanted—38 Special solid head, large or small primer pocket and 45 auto cases fired one time, in good clean condition. Will pay $10.00 per thousand for any brand small or large NMNC pistol or small rifle primers. A. A. Rawlins, 5543 McComas, Dallas, Texas.

REMINGTON 37, FACTORY SIGHTS, SLING. Perfect, fired very little, latest model $90.00. Wanted —Winchester 70 and ammunition, prefer .257. Arthur Penske, 3535 Anderson Parkway, Toledo 6, Ohio.

NEW MAUSER VARMINTER, REFINED ACtion, fancy stock, components, dies. Sell or trade for M70 .30-'06 Winchester, .30 Newton. M. O. Smith, Oneida, Ill.

52 WINCHESTER HEAVY BARREL, LATEST Marksman, Marble-Goss 52-M.S.-Ext, Lyman 77, excellent plus, $100.00. Want—Remington Sportsman; Winchester M-12; Fieldmaster; 61; 75-T; 513-T; K-22; O.M.T. 22; P.P.T. 22; Match Woodsman. H. J. McKinnon, Clarinda, Iowa.

NEW OUTFIT. JOHNSON-WINCHESTER HIWall. Caliber K-Hornet, double set, heavy barrel, Not Yet Stocked. 6X Litschert-Weaver scope in S Mounts. Lyman blocks, no irons or slots. Johnson-Red Head press, Pacific Scales and all components. Complete except stock, $140. Cost more. Reason—Moving to shotgun state. Want—20G Ithaca M37 and or shells part payment. Trade .30 gas checks for .22 L.R. cartridges. Peter MacGregor, 2079 Anchor, Phila. 24, Penna.

FOR SALE—REMINGTON 37, PERFECT. COMplete sights, sling, sheepskin case and 1000 Western L.R. ammunition. Fired less than 100 times. Very accurate, $100.00 cash or trade for excellent B&L or Zeiss 7x35 binoculars. Harry Rettinger, Sunbury, Penna.

SMITH DOUBLE, FIELD 16, EXCELLENT, $50.00. Remington Fieldmaster, Lyman peep, $32.50. S&W .22/32, good to excellent, $27.50. Want—engraved 22 D.S. Martini, 44½, or Hi-Wall hunting rifle, accurate, perfect, peep sights, with ammunition. Arthur G. Ayers, Tallula, Illinois.

WEBLEY SENIOR AIR PISTOL, .177 CAL., PERfect, latest model, honed trigger, including 1200 pellets, swap for 5" or 6" Protar, Plasmat, or Dagor Convertable Lens in Compur Shutter not over 1¾" over-all depth, or will sell $50.00. Cash. Chesler L. Pattee, 44 Larchmont Road, Salem, Massachusetts.

SELL—25-21 STEVENS 44, HEAVY 34" BARREL, set trigger, loading tools and cases, excellent $45.00. Want—92 and 94 Winchesters, D.C.M. Sporter barrel, M-1, 22 barrel, Springfield or Enfield action, late Johnson 5H outboard, Winchester Model 12-20 Shotgun. Colt Police Positive 22. George Gierke, Eastside, Oregon.

TRADE—H&R .32 TOP-BREAK, 6 IN. BARREL for heavy caliber handgun in need of repair. Sell—Model 69 Winchester, $15.00. .45 ACP, $50.00. Martin S. Barber, R 5 B 36, Salem, Oregon.

EXCELLENT 2¾ X TYPE "A" NOSKE SCOPE, post, in G&H Double lever mount, no base, $80.00. Good 8 mm. Mauser Sporter. Box cartridges, $35.00. Want 54 or 70 Hornet. M.O. Stamps. Ernest Rafalske, 185 19th Ave., North Tonawanda, N. Y.

SELL OR TRADE—250-4000 (30-06 NECKED) Enfield, Bishop stock, 29S Weaver, components, tools, $90.00. Want 12 or 16 repeating shotgun, 22 Remington Automatic. Charles Schwacke, Jr., North Vernon, Ind.

B&L AND ZEISS 6X30 BINOCULARS, EXCELlent, $90.00. New 23D Savage Hornets, $42.50. Will trade The Modern Gunsmithing by Howe for your Krag, Enfield, Mauser, 29S or what have you. Gopher Shooters Supply, Faribault, Minn.

SELL OR TRADE—1000 .22 CALIBER L.R. $10.00. Several thousand 150 gr. Cupro-Nickel 30-06 bullets at $10.00 per thousand. .30 caliber cast bullets and Loverin double cavity moulds. 100, 30 caliber Remington Automatic fired cases $2.00. B&M 30-40 and 30-06 bullet seaters $3.00 each. 8mm. ribbed J.P. Sauer Mauser, barrel excellent, $15.00, ammunition 10¢ each. Want Springfield Sporter Stock. De Luxe Mauser Sporter Stock. Pacific Dies in .300, 22 Varminter, 7mm, 22 Hornet, shell holder in Hornet and Lovell caliber. Wayne Allison, 334 Albion St., Wakefield, Mass.

HI-STANDARD MODEL B V.G. TO EXCELLENT, Holster $35.00, 219 Savage, 22 Hornet v.g. out, excellent in, Weaver 29S scope, 170 rounds handloads $40.00. Winchester 54-25-20, 2 boxes ammunition, v.g. $35.00. 32-20 Winchester 53, 1 box 115 gr. ammunition, v.g. to excellent, $35.00. Model 19 Savage, 22 target, 8X Winchester scope, 200 rounds ammunition, $40.00. 12 gauge Stevens double, excellent in and out, small rust spot outside barrel, ¼ inch diam, 2 boxes shells, $30.00. Want gun gunsmith tools, square drill rod, chisel steel, Kings semi smokeless, no sales till January 15th. Bob Brownell, Montezuma, Iowa.

FINE C.E. ANSLEY H FOX, 16-28-1½-2¼-14-6¼ lbs—M.F. SST, excellent. Shoots absolute center at 40 yds. $175.00. Also fine L. C. Smith #3-E SST, 12-30-1½-2½-14¼-8 lbs—M.F. excellent. Want expensive doubles, 12 ga. Please write. T. R. Vail, Industry, Illinois.

SPRINGFIELD SPORTER, KRAG, ENFIELD, .35 Remington, 300 Savage, Mauser Mannlichers, Micrometer receiver, and ramp gold beads. Want: Springfield Krag, Enfield, Mauser action, Pacific Dies, M54. 30-30 caliber. Prices on request. L. E. Norman, 1366 F St., N.E., Washington, D. C.

SELL—COLT WOODSMAN 6½" excellent, $45.00. Bishop stocked .30-06 Springfield, very good $70.00. Want—Harrington & Richardson folding shotgun. Remington Model 17, or prewar 20 ga double, 30-30 Winchester. Oluf Bearrood, Comstock, Wisc.

MATCH TARGET, PERFECT, 200 LONG RIFLE, Brauer Holster, $80.00. 45 Springfield, Marble peep, $10.00. Want: 70-270 Winchester perfect. Oliver Magnuson, Souris, No. Dak.

FOR SALE—MALCOLM MOUNTS FOR SIDE scope $10.00; Stevens 12 ga double barrel, excellent $37.00; 22 Defender revolver, good $10.00. Wanted: Benjamin rifle 177, Benjamin pistol 22, both very good. C. Southworth, New Hartford, New York.

FOR SALE: SPRINGFIELD BULL GUN BY Sedgely excellent to perfect, and 1,000 F.A. cartridges in clips, $150.00. Colt Match Target, excellent, $60.00. Winchester 54 Swift, target grade with sling, 17 front, no rear, blocks for telescope, new gun, $80.00. Smith & Wesson 44 Special, 2 boxes shells and equipped with target sights by factory, $75.00. Would trade the bull gun for 70 Winchester National Match or Target grade as the bull gun is too heavy for my use. F. L. Bailey, Marion, Ala.

HAVE EXCELLENT, VERY ACCURATE, M70, .257 Roberts, 60 shells, 300 bullets, $100.00. Perfect Colt .38 Special, Official Police 5", 250 shells, 100 fired cases, $65.00. Want: .25 caliber jacketed bullets; complete, .257 reloading tool; powder funnel. Trade 550 small for 500 large rifle primers. Joe Ivy, 1610 Mountain Lake Road, Dallas, Texas.

FOR SALE—TARGET MODEL 70, EXCELLENT, 48 rear, Redfield front $110.00. Primers and cases for purchaser only. Want: Winchester Single Shot high side action or complete rifle with Scheutzen double set triggers. J. M. Bates, Ballston Lake, N. Y.

WINCHESTER 54, '06. FACTORY RECONDITioned, Lyman 48 sling, box cartridges, stock slightly marred, very good, $87.50. Want: 64 Deer or 99T. Merle Stowe, Fowlerville, Mich.

ENFIELD SPORTER, AMMUNITION, COMponents, B&M tool, complete outfit, write for list. K 22, 500 kleanbore, shoulder holster, excellent, $70.00. Remington 37, factory reconditioned, 500 kleanbore, $80.00. S&W 38-44 heavy duty, inside perfect, outside holster worn, $50.00. Parker Trojan 12 ga., good, $45.00. 45-70 Springfield, ammunition, tools, primers, etc., good $25.00. 38-55 Ballard, tools, components, fair, $25.00. Want: Varminter, 70 Winchester, 720 Remington, Noske type A. Pacific dies, 21 Winchester, etc. Earl Price, Lodi, Wisc.

S&W .22-32, $45.00. WANT: .38 OR .32 REG. Police or PP: .351 Winchester, or ? Leslie Vanatta, Covington, Ohio.

SHOTGUNS, RIFLES, REVOLVERS, AUTOmatics, for Target, Defense, Hunting, bought, sold, traded, sale list 10¢. Smith & Wesson .357 Magnum 4" barrel perfect with 50 rounds 38 Special ammunition and holster, $135.00. The most powerful handgun ever made. Rudolph's Loan and Sales Co., Atchison, Kansas.

FOR SALE—MAUSER SPORTER 2R LOVELL, with scope blocks, no sight, in good shape, with 500 primers, 500 bullets, made from 22 cases, one lb. of 4198 powder, a full length resizing die, reloading tool, decapper, neck resizer, 100 loaded shells, 50 empty hulls, sell all for $85.00. Want—22 hulls, 30 caliber bullets, any weight, 8½ primers. R. W. Crumrine, 821 Lincoln, Clay Center, Kansas.

SIMPLEX 16 MM. MOVIE CAMERA, EXCELlent, F:1.9, F:3.5 and F:4, three inch telephoto carrying case accessories. $150.00. Would accept perfect Woodsman 6½" or M.T. part payment. J. J. Welker, 16504 Edgewater Drive, Lakewood, Ohio.

TRADE SAVAGE 19, N.R.A. VAVER REAR, 17A front, VG., want 12 gauge shotgun same condition or sell $50.00. Trade 30-06; Hornet; .380 Auto; factory loads for shotgun shells, Stoegers 1941 prices, cat. 33. Winchester Model 12 barrel, 12 gauge cylinder, $10.00. Scheutzen, .32-20 Stevens action 44, fair, $15.00. Other single shot actions $5.00—$7.50. H. Oelberg, Elkader, Iowa.

TRADE OR SELL—NEW STITH MOUNT FOR M70 Weaver scope $12.00. Want—Redfield Junior mount for Remington M 30 Express. Trade—10 boxes 22 L.R.H.S. for 2 boxes .25 Colt Automatic. Sell—M53 Winchester, .25-20 staynless steel barrel, d.s. triggers, pistol grips, nice checker job, tang rear click peep, spare springs and firing pin, 150 factory, 150 handloads, good, some blue off. $50.00. George N. Klages, 635 Marshall Ave., N.S. Pittsburgh 14, Pa.

BROWNING 12 GAUGE O.U. TRAP GRADE, F&F, vent. rib, beavertail forearm, recoil pad, Miller S.S. trigger, automatic ejectors, leather case, v.g $150.00. S&W, M.P. Target .38 Special, solid rib, cockeyed hammer, honed action, thumb rest grips, sheepskin case, v.g. $60.00. Mossberg Spot Shot, stand, excellent, $30.00. Wanted—Remington M32 or Browning O.U. (not Lightning) skeet, 26 inch barrels, standard stock dimensions, vent. rib preferred. Winchester M12, 12 gauge, solid rib, modified or Poly Choke, beavertail forearm. Edward Lang, Naval Air Gunnery School, Purcell, Oklahoma.

USED MODERN AND ANTIQUE FIREARMS, bought, sold and traded, write me your wants, or what you wish to sell. Do not ship unless notified. Large catalogue of fine arms available, send 25¢ in coin to cover costs, same will be refunded on first order. Trembly Arms, 106 Andover St., Lawrence, Mass. tf

SALE OR TRADE—30 X 72 AIR MATTRESS, excellent $15.00. 54.06 Barrel, carbine, very good in, good out, $8.00. Ward's 4 Power scope, very good $8.00. 42 rounds, 38 Colts Automatic, 50 rounds 12 Ga. Super Speed, 6 shot, new. Want Hornet ammunition, equal value, Pacific Scales. Otis E. Coleman, 145 Magnuson, Apt. J., Bremerton, Wash.

10 GAUGE LEVER ACTION WINCHESTER fair, stock cracked, box Super X $27.00. Wanted—12, 16, "Sweet Sixteen" Browning full with rib. James B. Pointer, Scottsbluff, Nebr.

AMERICAN RIFLEMAN 1923-1931. SELL OR trade for firearms or photographic equipment. Write for details. Clark Pickering, Middlefield, Conn.

WEAVER 440S, LEE DOT, STITH 70 MOUNT, excellent, $50.00. Want—Lovell and .270 jacketed bullets, target scope, binoculars. J. S. Floam, 3 S. Frederick St., Baltimore 2, Maryland.

52 WINCHESTER LATE MODEL HEAVY BARrel, perfect, Vavers, $85.00, 52 Winchester old style, heavy barrel, nice condition, Vavers $70.00. Match Target Woodsman, inside perfect $80.00. 3", 12 gauge shells for factory hornets. Byron Sullivan, Washington, Illinois.

SELL—TRADE ISSUE .30-06 SPRINGFIELD, new barrel, otherwise good $45.00. Trade for Sporter Automatic Shotgun or? R. G. Elston, Marshall, Illinois.

SALE OR TRADE: SAVAGE AUTOMATIC, 12 ga, new $85.00; Winchester 1886, cal. 50-110, action excellent, otherwise fair, box cartridges, $32.50. Want: Model 70, 270, 20 ga. double with A.E.-B.T.-F.E.-S.T., prefer 28" barrel with shells. Woodsman 4½", Argus scope. R. C. Atkins, 16888 Lawton, Detroit, Mich.

HAND GUNS FOR THE WAR EFFORT
AN ALLIED NATION NEEDS YOUR AUTOMATIC PISTOLS AND REVOLVERS
URGENTLY
SELL NOW—REPLACE AFTER VICTORY

AUTOMATICS NEEDED: COLT, SAVAGE, REMINGTON, AND ALL FOREIGN MAKES, CALIBERS .25—.32—.380—.38—.45 and Luger 9MM and 7.65. ALSO .22 High Standard Models A & B.

REVOLVERS NEEDED: All Smith & Wesson and Colt Side-Swings in calibers .38, .38 Special, .45 and .455, and .38 Smith & Wesson and .455 Webley Top-Breaks.

SINCE NO AMMUNITION IS AVAILABLE IN THESE CALIBERS FOR PUBLIC USE WHY NOT SELL YOUR GUNS NOW? WE'LL ALL WANT NEW MODELS AFTER THE WAR.

SHIP AT ONCE—FAIR PRICES WILL BE PAID PROMPTLY

OUTWARD APPEARANCE UNIMPORTANT. MUST RATE "GOOD" OR BETTER IN AND MUST FUNCTION MECHANICALLY.

CLIP AND MAIL THIS COUPON TODAY

GREENWALD & HAUGHTON,
10301 Berea Road,
Cleveland, Ohio.

Gentlemen:

I have the following Hand Guns which I will sell to AN ALLY. Send me shipping instructions.

1. ..... @ $ .....
(Make, model, caliber & condition) *(Price)*

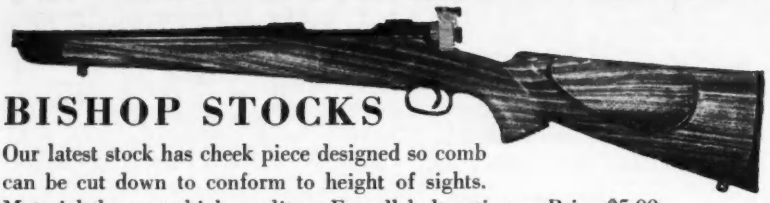
2. ..... @ $ .....
(Make, model, caliber & condition) *(Price)*

3. ..... @ $ .....
(Make, model, caliber & condition) *(Price)*

My Name .....

Address .....

City - State .....



BISHOP STOCKS

Our latest stock has cheek piece designed so comb can be cut down to conform to height of sights. Material the same high quality. For all bolt actions. Price $5.00. Mannlicher type $7.50. Shipping weight of stock, 4 pounds. Catalog ready.

E. C. BISHOP & SON **Warsaw, Missouri**

HAPPY NEW YEAR!

I want to take this special opportunity to thank every one of my customers and friends for their fine patience and understanding during the past year. We have had heavy defense schedules to maintain, and have also tried to give the best possible service to our customers. This has been a very hard "row to hoe," and could not have been accomplished without the fine co-operation on the part of our customers.

I will always strive to be of the best possible service to the shooting fraternity, and I extend to every shooter, man, woman and juvenile a very happy and healthy New Year, along with the freedom and prosperity and opportunity that only a democracy can extend.

Yours by mail, till we can again meet on the firing line; and I pledge my best possible service for 1944.

1112 35th St. **AL FREELAND** **Rock Island, Ill.**

KEEP SHOOTING—WITH MUZZLE LOADERS

Powder and Lead Still Available in Limited Quantities
Our Publication MUZZLE BLASTS Tells Who Keeps The Supplies.
. . . Lists Match Dates . . . Tells What's Happening and Who's Who
. . . $1.50 Per Year.

We Own Our Own Range And Are Planning Improvements

Buy Recent Books on The Frontier Guns—Through Us

NATIONAL MUZZLE LOADING RIFLE ASSOCIATION

E. M. FARRIS, Secretary, Portsmouth, Ohio

COLT .22-45 CONVERSION UNIT, $75.00. ARGUS Spot scope, stand $80.00. Colt Revolvers in excellent condition, Official Police .38 Special 6" blue, $65.00. Police Positive Target, recessed cylinder, $65.00. 1917, .45, $50.00. Detective Special, .38, $60.00. Ace .22, $70.00. Woodsman, 4½", $60.00, Woodsman 6½, $50.00. Woodsman, King custom, 4½, $100.00. Frontier .45 blue, 7½", genuine stag, custom, $90.00. Frontier, .38 Special 4" blue, custom, $80.00. Smith & Wesson revolvers, .22-32, 6", $65.00, Kit gun $70.00. Olympic Single Shot, .22, $40.00. 1917 Commercial, .45 good, $55.00. Military & Police, .38 Special, 4, 5, and 6", $35.00 to $55.00. Winchester Rifles, .351 Automatic, excellent, 100 SP cartridges, $80.00. .30-30, carbine, good, 100 SP cartridges, $60.00. 52 Sporter, Weaver 330, B mounts, custom, excellent, 500 kleanbore, sheepskin case, $180.00. 52, standard, speed lock, 48 and 17 Lymans, sling, 500 kleanbore, $85.00. Springfield heavy barrel, match rifle, 48 Lyman, sporter stock, 100 cartridges, $90.00. Jeffery Mauser .500 excellent, $250.00. Rigby, .450 double, excellent, $300.00. Mauser set trigger, 8 mm. carbine Mannlicher stock, set triggers, $85.00. Also some shotguns, Prism binoculars, Carl Zeiss 6x30, IF, $85.00, Busch, 9x40, $70.00, Signal Corp, 8x30, $70.00. Bausch & Lomb 6x30, $45.00. Hubertus 6x40, Beckkassel, $110.00. Cartridges, loose, .25 Remington ,25-35, .30-30, .32 Remington .33 Winchester, .32 Winchester S.L. .35 Winchester SL .303 Savage, 9mm. Mauser, .401 Winchester SL, 40-70 Winchester $1.00 per ten. Will Trade. The Gun Shop, 106 E. Market, Louisville 2, Ky.

NEW 75 WINCHESTER SPORTER, 100 CARtridges, $40.00. 10 power French binocular, absolutely perfect, $35.00. Lyman 56S, Savage 99 peep $8.00. Want: Kar '98 Mauser rifle, money orders only. Walter Beilstein, 16 Bennett, Pontiac, Mich.

38-44 SMITH & WESSON, MAGNA GRIPS, EXcellent $65.00 or trade for 70 Winchester or 30S Remington 30-06. 100 rounds M+ $10.00. Want: .30 cal. 170 or 180 grain S.P. or expanding bullets. Dies for Model 12 or 24 Schmitt tool. Lawrence Westhoff, Rt. 1, Box 2116, Bremerton, Wash.

32 COLT PP PEARL GRIPS $30.00, 25 COLT $20.00, Wards Bolt repeater scope sight $20.00, English 303 Enfield, barrel perfect no firing pin or sear $25.00. Wesson .38 C.F. rifle $10.00. Swiss .41, $10.00. Winchester low wall 22, modern $35.00. Want: magazine pocket model .38 A.C.P. Jesse Pigg, Bagdad, Kentucky.

BEAUTIFUL .35 CALIBER REMINGTON WOODmaster Automatic rifle, fancy grade, engraved wildlife scene top of receiver, Lyman 41, Redfield gold leaf front, full pistol grip stock finely checked and stippled, Tenite Ivory butt plate and grip cap, QD swivels, sling, excellent, 50 rounds ammunition, $110.00 or will trade for M70, 300 or .375 Magnum with ammunition. Want: .22 L.R. .30-40, 30-'06 SP ammunition. Capt. Buck Brown, Rt. #1, Largo, Fla.

FOR SALE OR TRADE: VERY GOOD ENFIELD Sporter, Bishop stock, 29S, 80 rounds late issue ammunition. $97.00. Almost new but scratched 30-30 Winchester carbine, $65.00 with three boxes ammunition. Want: Excellent .30, .32, or .35 Remington Automatic Model 81. H. Dale Weeks, Belle Fourche, S. D.

TRADE

PRIMERS, AMMUNITION FOR TRADE—WANT Farquharson action, or other rifle actions, Krag barrel. Springfield T barrel, binoculars, bullets, 270-220. Frank Foster, Box 983, Clovis, New Mexico.

TRADE AVOCADOES FOR 1 ONLY, SPOTTING scope, Winchester 52 Standard barrel with good scope, Colt Match Target Woodsman, 39 Marlin, all must be perfect to excellent. Avocadoes $4.00 half flat, approximately 12 fruit, ship prepaid flat a week, or as desired. Walter Hughes, Silver Springs Ranch, Fallbrook, California.

TRADE—EXCELLENT TO PERFECT M-52, H.B., Marksman stock, Vaver rear, Redfield front; for equal M-52 Sporter. Personal gun. Want—'06 resizing die. L. L. Hodges, R #4, Jonesboro, Tennessee.

TRADE—S & W TARGET REVOLVER .22/32, very good, for Weaver 440 scope. Russell Allen, 422 South Schuyler, Ottumwa, Iowa.

STOETZER PERFEKT FREE PISTOL AND EXcellent cane-gun, will trade either for Walther HP Army Pistol or Webley Mark II Service Air Rifle with both calibers interchangeable barrels or will pay cash. Halford Lembke, 318 Oceanic Bldg., Seattle 1, Washington.

.30-30, .25-35, .270 AND .300 SAVAGE AMMUNItion. Want 12 ga. shells, Hornet 2R Lovell or .220 Swift rifle with scope. Also powder scales, shotgun, .22 pistol and outboard motor. C. Nieset, Millersville, Ohio.

276 PEDERSEN MOD. 98 MAUSER (BERLIN 1907) scope blocks only remodeled and checkered service stock. Perfect in, nearly so out. Metal work by Gipson, Sedgely and Niedner. Nearly case of ammunition, B&M 7mm. tools and components. Letters answered. Want: 2R Lovell, .220 Swift .22 Hornet. Dunlap Roddey, 148 Oakland Avenue, Rock Hill, South Carolina.

TRADE—ONE BOX .30-30; TWO BOXES .7MM. four boxes .25 Remington; two boxes .35 Winchester; one box .351 Winchester; one box .401 Winchester; one box 8 mm. Want Redfield Jr. Mount for 98 Mauser and 12 ga. shotgun shells. W. L. Stambaugh, 1211 El Paso St., Plainview, Texas.

COLT .38 SPECIAL POLICE POSITIVE, 5" UNfired, perfect. Want 30-06 Winchester 54, 70 Remington 30, 720. Al Bopp, 2411 Hastings Ave., Evanston, Ill.

TRADE WOODSMAN 6½", NEW, THUMBREST grips, Heiser holster, five boxes cartridges for .22 jacketed bullets and small rifle primers. O. L. Vosburgh, Underwood, Wash.

GUNS, AMMUNITION, RATHER TRADE THAN sell. Stamp for list. F. Emerson, Box 54, Auburn, Mass.

TRADE B HI-STANDARD, 6½", FIRED 100 times, leather and sheepskin holsters, for Winchester 52 Sporter, 75 Sporter with ammunition or for L.R. Ammunition. Ralph Nobles, P.O. Box 1663, Santa Fe, New Mexico.

TRADE—12 GAUGE REMINGTON SPORTSMAN Skeet grade 28 inch full choke ventilated for ventilated rib model 12 Winchester also excellent. H. Dale Weeks, Belle Fourche, So. Dak.

TRADE—SPRINGFIELD MODEL 15 S.S. .22 V.G. for 500 fresh Long Rifles. Warren Peschl, 667 East 232 Street, New York 66, N. Y.

TRADE—.22 L.R.H.S.H.P. for #116 PRIMERS. Want 75S, 70-.257 or .270. C. Martinka, 800 Grandview, York, Penna.

TRADE—POCKET MODEL 7.65 MAUSER AUtomatic, good or better, two boxes cartridges, for Colt Frontier or Bisley .45. John S. Stewart, Box 145, St. Charles, Illinois.

TRADE—NEW CONDITION IHAGEE DUPLEX 2¼ x 3¼ Camera with accessories for excellent to perfect S&W .38-44 Outdoorsman or .357 Magnum; or Colt .38 Special Shooting Master or .357 Magnum; or what have you? Monty Mann, 4537 Lorraine, Dallas 5, Texas.

REMINGTON HEPBURN TARGET RIFLE 38-70 caliber 30" 1/8 oct Heavy barrel, about very good. $22.00. 48R Lyman click sight can be fitted to 1917 model rifle $10.00, very good. 32-40 Ideal combination mould and tool, $4.50. Wanted .218 bee cases and bullets. Gas check bullets. Wm. F. Lentner, 136 Miller St., Johnstown, Pa. R.D. #2.

FOR SALE — 12 GAUGE BROWNING OVERunder trap model. Special steel barrels. 3 inch shells or regular. Pad. Very good. Shells if wanted $125.00. Trade—Remington 30-06, 30S Lyman rear, perfect. 6 Horse outboard perfect. Want Remington .300 Automatic. Jack Frenzl, Route #3, Appleton, Wisconsin.

SAVAGE 420 OVER UNDER 12 GAUGE, 26 INCH, 100 shells, very good, $48.00. 30 Power Prismatic scope, very good, $28.00. Rifleman 6-36 to 12-42 $4.00. 440 small primers and 3 pounds powder $6.00. Wanted—Marlin carbine, consider other trades. Freeman Merillat, 227 Marshall, Wauseon, Ohio.

TRADE—LIMITED AMOUNT PISTOL PRIMERS, 20 gauge shells, .38 Special and cash for frontier, Remington percussion or .45 Colt Automatic. William Bachrach, 6812 Harper Ave., Chicago, Ill.

TRADE—32-20 MARLIN REPEATER, GOOD OR cash for 4½ Woodsman or 32-20 pistol. W. E. Collier, R 2, Box 395, Clayton, Missouri.

TRADE—REMINGTON 37, #00276, REDFIELD Olympic front, Remington rear; Bausch & Lomb draw tube and stand, all very good or better, and 350 Kleanbore for 16 ejector Fox or Parker, 26 or 28, improved cylinder or modified. Richard Rowley, Clovis, New Mexico.

TRADE—K 22 MASTERPIECE LATEST MODEL, Ammunition, Adapter, Heiser shoulder holster, rod, perfect. Want—70—270 must be perfect with or without scope. All letters answered. E. C. Andrews, 2707 Barnes Ave., New York 67, N. Y.

TRADE — SUPER 70 HORNET; 32 SAVAGE Automatic, 10 ga. shells & 28 sizes rifle pistol ammunition. Want—Swift ammunition bullets, primers; 32 Colt Automatic ammunition, binoculars, 70 or Enfield action, barrel blank. R. Beckman, Denton, Montana.

TRADE—BICYCLES FOR FIRE-ARMS. EAGER'S, 3 So. Andrews Ave., Fort Lauderdale, Fla. tf

TRADE — NEW WEAVER 440 WITH SHARP picket post and cross wire for 1000-22 long rifle fresh. J. E. Andrade, P.O. Box 363, El Paso, Texas.

TRADE — 70, .220, AMMUNITION, TOOLS. Want: 52 Sporter, ammunition. David Russell, Hayneville, Ala.

TRADE—WINCHESTER 94, .32-40 AND AMmunition; Winchester Lo-Wall (rim fire) action and stock; Remington .22 autoloader (old model); Drawing instruments; Want—.30-30 or similar; .45 Automatic. C. L. Morris, P.O. Box 467, Charleston, E. S. Car.

WILL TRADE EXCELLENT WINCHESTER Model 70, 2R Lovell for Model 70. .270 in excellent or better condition. Gerald Cross, Lathrop, Missouri.

TRADE—.30 LUGER FOR COLT DRAGOON; Savage NRA or Walthers .32 Automatic for Colt Navy or Model 53 altered to .38 rim and center fire; have Krags, Mausers, Newton, misc. ammunition. trade for Colt perc. revolvers, shoulder stock for .44 C&B Army, molds, flasks, etc. Gerry F. Brown (Life Member), Presque Isle, Maine.

TRADE: 52 H.B. OR 75 FOR 52 STANDARD OR will buy for pre-induction and Jr. Club. Want spotting scopes, small coats. Trade or sell S&W .38 fair. Winchester Model 12, 12 good; barrel new, $48.50. Dynamic stand microphone $38.50. Loren Mitchell, Olney, Illinois.

KODAK BANTAM, COLT PISTOLS, MOVIE Camera 8mm. Hi-Standard .22; Ocean City Reel; Ammunition. Want—8mm. projector; binoculars; 35mm. Camera. S. de Ranitz, Reserve Officer's TC. Prairie du Chien, Wisconsin.

COLT .45 COMMERCIAL, EXCELLENT, EXTRA clip, holster, will trade for small or large pistol primers. Peter Benic, 1303 Tinkers Creek, Bedford, Ohio.

TRADE—29 WEAVER SCOPE AND MOUNT. Want: Pacific dies for .38 Special. Spates Roblyer. R.F.D. #5, Cumberland, Maryland.

TRADE—RADIOS, TEST EQUIPMENT, ELECtric, gas motors, for .22 rifles, revolvers, scopes. C. H. Finley, Forest, Ohio.

TRADE—MARLIN M90 COMBINATION .30-30 and 20 gauge over and under perfect with 100 rounds ammunition. Want—Savage M99T, .250-3000 or .30-30 or Winchester M64 with 20" barrel excellent or better. Trade—2 boxes .300 Magnum 180 grain Silvertips for six boxes .22 LR. James Phillips, Byrds, Texas.

WANTED

WANTED—22 L. R. WINCHESTER HI-WALL medium barrel, full loop lever, beaver forearm pistol grip, both checked must be perfect. Member N. R. A. R. W. Wellington, 115 West 8th St., Bicknell, Indiana.

WANTED—DE LUXE CUSTOM HIGH GRADE Mauser single trigger .30-06 or 7 mm. caliber rifle, must be excellent. Elmer C. Breuer, 3616 Traynham Rd., Shaker Heights 22, Cleveland, Ohio.

WANTED—WINCHESTER .30-40 OR .35 W.C.F. Single shot or model 1895 solid frame. Perfect to excellent. Arms Chest rating. Glen C. Welton, Sextonville, Wisc.

WANTED — COLT .45 AUTOMATIC LATE model. Prefer National Match. Also Lyman Alaskan, all weather preferred. Ralph Dittmann, 427 Bender Rd., Milwaukee 9, Wisconsin.

WANTED—ENFIELD WITH GOOD ACTION, poor barrel with or without stock. Eugene Hopper, Jaroso, Colorado.

WANTED — MANNLICHER—SCHOENAUER OR custom Mauser in excellent condition. Andrew Kersch, 1516 Beach Avenue, New York City.

WANTED—MODEL 54 HORNET, MODEL 97 trap or better, fancy 92 and 94, Heavy D.S. Winchester Single Shot Express or Scheutzen. All must be near perfect. Lloyd Bender, Galion, Ohio.

WANTED—MODEL 70 WINCHESTER, TARGET grade, 257 Roberts caliber. Also empty 257 cases Winchester or Western. E. L. Jewett, 1221 Evergreen, Burbank, California.

WANTED—LATE MODEL WINCHESTER H.B. or Remington 37, condition excellent plus to new. With scope and Vaver, Goss or Lyman extension sights. Will trade excellent plus Winchester Standard #64213B as part payment if party desires. State serial, condition and lowest price first letter. Also want Colt .25 Automatic v.g. to excellent, shells. Mario Anesi, 929 Montana St., Chicago 14, Illinois.

In the Deserts of NORTH AFRICA

American boys in North Africa had many a fascinating experience and many an opportunity to compare their own weapons with those of the natives. The long, ornate rifle of the Arab, for example, made the acquaintance of the business-like American sniper's rifle equipped with its Weaver Scope.

Weaver Scopes have been helping to fight the war on many fronts; in the hands of keen-eyed American snipers, they have guided many a whizzing bullet into the heart of an enemy of America. If you are unable to buy a Weaver Scope—that's the reason!

The WEAVER CHOKE

$9.75 including any two choke tubes

Choice of six quickly interchangeable tubes. Available from dealers or from the W. R. Weaver Co.

WEAVER
Scopes and Chokes

If your dealer does not have the Weaver Scope you want, write us; we may be able to locate one for you.

Made in El Paso, Texas, by W. R. WEAVER COMPANY

PARKER 16 ONLY. DESCRIBE GRADE, CONdition, specifications fully. Your price. Sell Fox B 16 very good to better, oiled stock. $45.00. H. W. Lewin, 44 Crest Avenue, West Haven, Conn.

WANTED—COLT WOODSMAN 6½" WITH TARget sights. Must be very good or better. Also six boxes 9 mm. Luger cartridges. R. I. Gibbs, 70½ Edgewood Ave., N. E., Atlanta, Ga.

WANTED — MANNLICHER CARBINE, FULL stock, 6.5 or 7 mm., v.g. or better, single trigger, ammunition. Trade N.M. 45 Auto. excellent, 100 com. cartridges, 20 ga. Remington sportsman, V.G., shells. Charles Trent, 203 Brown Bldg., Wichita Falls, Texas.

WANTED—.25 MANN, NORVE AND MAUSER vest pocket pistols; 41 Remington Derringer; .25 Pieper Automatic; H & R handy gun; Ithaca auto and burglar gun. Arthur Leidesdorf, Elberon, N. J.

WANTED—1892 MARLIN .32, GOOD IN OUT fair, details in first letter. T. S. Ford, R. #3, Box 100, Utica, Miss.

NAVY DOCTOR NEEDS .45 AUTOMATIC FOR overseas duty. Prefer National Match with adjustable sights. Senior Medical Officer, 137th Battalion, A.B.D., Gulfport, Miss.

WANTED—SPORTING VERSION OF JACOB'S rifle as made by Daw of London. Also mold casting 4 winged conical bullet for same. R. P. Gorning, M.D., 857 Marlborough, Detroit 15, Mich.

WANTED—WINCHESTER 52 SPORTER, LATEST model. Also Winchester, 57, .22 L.R. both in excellent to perfect. S. W. Adams, 815 No. West St., Visalia, California.

.357 MAGNUM WITH AMMUNITION. ALL OFfers answered. William Schafer, Box 1663, Santa Fe, New Mexico.

BOND
Model "C" Straight Line LOADING TOOL

Double Cavity Bullet Moulds

B-358

Send 10c for latest catalog on hand loading

MODERN-BOND CORP.
813 West 5th St. Wilmington 99, Del.

KING GUN SIGHT COMPANY
171 SECOND STREET - SAN FRANCISCO - CALIF.

WAR WORK, night and day, leaves us little time for regular customers' orders. We'll do the best we can—but ask your indulgence.

.30—'06 HEADSPACE GAGES
Prompt shipment from stock
1.940-1.946-1.950" lengths—$5.00 each
1.942-1.944-1.948" lengths—$5.50 each
Postage and insurance 5¢ each
L. E. WILSON Cashmere, Wash.

UNERTL TARGET SCOPES

To Shooter Friends, Unertl Optical Co. wishes to advise that for the duration of the National Emergency, they cannot furnish target scopes but hope that their friends will keep in contact by writing for Free Booklet.

3551-3555 East St. J. UNERTL OPTICAL CO. Pittsburgh (14), Pa.

HUNTING & FISHING is a monthly magazine crammed full of hunting, fishing, and camping stories and pictures. Many pages of "gun dope" by Major N. H. Roberts, author of "The Muzzle-Loading Cap Lock Rifle," is an outstanding feature in each issue.

Special Trial Offer
Send 25c in stamps or coin and we will send you Hunting & Fishing for six months.

HUNTING & FISHING
MAGAZINE, 227 Sportsman's Bldg., Boston, Massachusetts

HI-STANDARD

High Standard experience and equipment are now all out for Victory. Target Pistols will be unavailable to shooters for the duration of the war.

.22 AUTOMATIC

HIGH STANDARD MFG. CORP. 1811 Dixwell Av., New Haven, Ct.

New Designs in
FRANZITE GRIPS

Modernize YOUR GUN! Improve YOUR SCORE!
Most durable grips made. Positively unbreakable! For Colt, Smith & Wesson, Hi-Standard, Ortgies, Luger and Mausers in a wide choice of beautiful designs in ivory, pearl, walnut, enyx, etc. Low prices. FREE CATALOG. Dealers Wanted.

SPORTS INC., (Mfrs.) 2850 N. Clark St., Dept. A-1 Chicago, Ill.

SUPERIOR HOLSTERS AND BELTS
S. D. MYRES SADDLE CO.
EL PASO, TEXAS
Write for Catalog

OFFICIAL N.R.A. TARGETS
SHOOTING SUPPLIES
Send 20¢ for Catalog. Refunded first order
WISLER WESTERN TARGETS
543 Clay Street San Francisco, California

Minute Man★GUN BLUE
INSTANT "BLUE STEEL" GUN FINISH
Not a Paint-Not a Lacquer
MAGIC COLD CHEMICAL Restores finish on 8 Guns. No heating! Can't injure steel. Simple process. Takes minutes.
$1
GET Free descriptive circular
NEW METHOD MFG. CO.
Box AAM 133 New Method Bldg., Bradford, Pa.

SMITH & WESSON
Revolvers
SPRINGFIELD, MASS

WANTED — SUGGESTIONS FROM ADVANCED Gun Collectors and dealers for revising The Gun Collector's Handbook of Values. Second edition will probably appear in summer or fall of 1944. First edition is nearly sold out. Names of those helping will appear in revision. Charles Edward Chapel, 2824 Chatsworth, San Diego 6, California.

WANTED — FOR CASH SHOTGUNS, RIFLES, Pistols and Revolvers, can use all makes and types. Describe guns fully in first letter, state price, all mail answered. Big Ben Mercantile and Loan Co. 179 Third Street, San Francisco, Calif. tf

M-70 WINCHESTER & M-54 WINCHESTER, CONdition not material. Want actions. Arthur Shivell, 4323 Sunset, Los Angeles 27, Calif. tf

WANTED—HAWKINS RIFLE RECOIL PAD 3/4-1 1/4-5 1/2, Springfield as issued, late number, Winchester Model 63 Long Rifle, 30-06 cartridges. G. Barnaby, 837 W. Huntington Dr., Monrovia, Calif.

WANTED—MODEL 70, .270 OR 30-06 WITH OR without scope, super grade preferred, for cash or will trade 5.8 H.P. Champion outboard or 8x30 Busch Solar binoculars. Lloyd Raab, Vashon, Wash. 2-44

WANTED — FOR PERSONAL USE. MAUSER Sporter .30-06; Newton Rifle (original); Remington 20 ga. Automatic; Luna 22 L.R. Give complete details first letter. Floyd Holloway, 220 West Seventh Street, Clovis, New Mexico.

WANTED — .38 DETECTIVE SPECIAL OR 22 Bankers Special. Also Colts .380 Automatic, .38 Special Colt or Smith, three or four inch barrels. Must be excellent plus. Carl F. Krausse, Hobart, Indiana.

NAVAL OFFICER NEEDS REMINGTON 32, over-under Trap or Skeet grade, ventilated rib, 28" barrels. Skeet boring. William Sitzer, U.S.N. Gunnery School (Chabot) U.S.N. Air Station, Alameda, Calif.

WANTED—TWO M70 RIFLES EXCELLENT OR better condition, one .220, one .257 or .270 all letters answered. John Upperman, South Amboy, N. J.

WANTED—.30-30 WINCHESTER 64 CARBINE, excellent. Major E. H. Worth, Westover Field, Mass.

WANTED—MODEL 98 ACTION COMPLETE, .380 Remington Automatic pistol. Condition good or better. W. R. Hendricks, Box 252, Williamson, W. Va.

WANTED—4 TO 6 SQUARE FEET RUSSET tooling Steer Hide. At not more than $1.50 per sq. ft. G. J. Wykoff, Naval Mine Depot, Yorktown, Va.

WANTED — LOW PRICED SINGLE OR REpeater 22 and some ammunition, good 37 target outfit and ammunition, Springfield Service Rifle. P. Consos, 1317 E 39th St., Savannah, Ga.

WANTED—LYMAN 58E RECEIVER, 77 FRONT with KK base, sights for Winchester 75 target. Lincoln Welser, 2751 Wabash Ave., Terre Haute, Indiana.

WANTED—CASH FOR LYMAN SUPER TARGETspot 12 or 15 power. Contax II F:2. or 2:8 lens. Outboard motor 1 to 2 1/2 hp. Remington Sportsman 16 ga. All must be in excellent condition. C. B. Morton, 1205 Fla. Avenue, Bristol, Tenn.

WANTED—MODEL 11 REMINGTON 12 GAUGE with or without raised rib. Witt, 171 College, Holland, Michigan.

WANTED—375 H&H MAGNUM RIFLE. STATE condition and describe fully, with best price. Bielefeld, New Knoxville, Ohio.

35 MM. CAMERA. 35 MM. FILMS. 8 MM. LEbel ammunition. 22 caliber single shot pistol. Paul E. Hughes, 519 South Park Ave., Fremont, Ohio.

WINCHESTER 70, 65, 64, REMINGTON M30S, 81, 141, any caliber; High-Side in 22 R.F., 2R, 25-20, 25-35; Springfield N.M., high number; 12 ga in double, pump, or automatic. All must have ammunition and be perfect inside, excellent to perfect outside. Robert J. McFeeter, 179 Lincoln Place, Irvington, N. J.

COLT .22—45 CONVERSION UNIT OR COLT Ace. Give price and condition. C. E. Ritts, 109 Mills St., Braddock, Penna.

WANTED—EXCELLENT WINCHESTER 70 OR 720 Remington caliber 270 and 130 factory cartridges, also Lyman Alaskan all-weather scope. Kenneth Meservey, Box 144, Ophir, Oregon.

WANTED—LEFT HANDED BOLT HI-POWERED rifle. Johnson 2 1/2 and 9 1/8 hrsp, state model and condition. Pfleuger Supreme VCCL and Toledo True Temper rod. Stanley Post, 612 4th St., Niagara Falls, N. Y. 2-44

WANTED—S&W K.22 OR COLT OFFICERS' Model 22. State condition and price. H. R. Anderson, Chenango Forks, N. Y.

WANTED—BARREL FOR 30-'06 MAUSER. PREfer medium heavy weight barrel of target grade. Sell Remington electric shaver. Model 78 Foursome, with leather case. New $23.00. Dr. Forrest R. Showalter, 425 Chestnut Street, Mifflinburg, Penna.

WANTED—A 6" or 8" ELECTRIC BENCH SAW. In good condition, reasonably priced. J. A. Parker, Box 413, Melbourne, Florida.

WANTED—.38 SUPER, WILLING TO PAY NOT more than $50.00. Winchester 70 caliber 30-06. $75.00. Jesus E. Andrade, P.O. Box 363, El Paso, Texas.

WANTED—MODEL 70 WINCHESTER .375 MAGnum. Model 52 Winchester Sporter, sell or trade. Deluxe Model 71 Winchester .348. Model 75 Sporter. C. H. Rothermel, Alburtis, Penna.

I WILL PAY $5.00 (FIVE) FOR TILDEN SIDE lever safety for M70 Winchester. Gerald R. Allen, Co. D 297th Inf. A.P.O. 942, % P.M. Seattle, Wash.

WANTED — WINCHESTER MODEL 21, 16 gauge, 30 inch full & Modified, very good or better. Murray A. Raven, Route #4, Gouverneur, N. Y.

WINCHESTER 97—12 GAUGE FULL CHOKE, prefer Pidgeon grade & excellent condition only, also want fine 10 gauge Magnum Double, fine Greener or Parker or equivalent in 12 gauge duck gun, excellent only. M. C. Clark, 169 No. La Peer Drive, Beverly Hills, California.

WANTED—COLT .22 BANKERS' SPECIAL, FULL blue. State price and condition. Ed. Kevlin, 217 South Catherine St., Mobile 19, Ala.

WANTED—EXCELLENT TO PERFECT COLT SA chambered for .45 ACP. Details first letter please. Pvt. James D. Gordon, 743rd Ordnance Co. A.P.O. #43, % P.M. San Francisco, Calif.

WANTED—7 MM. MAUSER V.G. OR BETTER condition, price right. J. N. Sturdevant, Buffalo, S. Dak.

WANTED—COMPLETE SPRINGFIELD ACTION National Match grade. Edward W. Paine, 132 Main St., Waterville, Maine.

WANTED — GOOD OR BETTER MODEL 70 Winchester or 720 Remington, .30-'06 equipped with hunting scope. J. F. Myers, Copperhill, Tenn.

WANTED—MAUSER 98 ACTION COMPLETE. or rifle, barrel immaterial. Du Maurier 8X Prism Monocular. W. D. Davidson, Meridian, Idaho.

WANTED—WINCHESTER 52, REMINGTON 37 latest model HB target rifle, with 1 1/2" scope having precision mounts; also ammunition or outfit. Describe and price. Need Hi-Side, Enfield or Stevens 44 1/2 rifle or action, powder measure. L. Elwood. 12304 Wyoming, Detroit, Michigan.

WANTED—ARGUS SPOTTING SCOPE. PERfect condition. M. E. Hutton, 222 South Mariposa Avenue, Los Angeles, California.

WANTED—FAIR PRICES PAID FOR TARGET Pistols, Revolvers, Rifles and Antique Guns of all kinds. Ship for estimate, Public Sport Shops, Dept. R-67, 13 S. 16th St., Phila., Pa.

WANTED—.30-06 SPRINGFIELD OR ENFIELD as issued, also Bayonets. Robert Abels, 860 Lexington Avenue, New York 21.

REPEATING GUN TO HANDLE 9 MM. LONG rim fire shot cartridges. Jim Craton's, Davenport, Iowa.

WILL PAY GOOD PRICE FOR NATIONAL Match Springfield in new condition. Paul Fedorys, 10 Hillside Avenue, New York 34, N. Y.

WANTED—70 WINCHESTER 257-270 OR 300 Magnum, will answer all letters. Witt, 171 College, Holland, Michigan.

WANTED—PISTOLS, ALL KINDS, 22 to 45. PAY up to $75.00 and more for S&W 357 etc. Hawn, Box 52, Alhambra, Calif. 5-44

WANT—HI-WALL HORNET OR 2R LOVELL, perfect bore. Pacific Powder Scale. Edwin F. Chase, R.D. #2, Batavia, New York.

WANTED—MODEL 52, ALSO MODEL 70 OR other 30-06 with scope and ammunition. Hawn, Box 52, Alhambra, Calif. 5-44

WANTED—COLT MATCH TARGET WOODSMAN also Super Target Spot in 10 or 12 power. Joe Fingal, 414 Maryland Ave., Wilmington 55, Delaware.

WANTED — COLEMAN ROUND CORNERED camp stove with two burners. Savage .300 ammunition. Good or better .30-06 Winchester 54 or 70 with peep sights. Edw. Daubenspeck, Fertig, Mont.

WANTED — .22 HANDGUN, KIT GUN PREferred. Down sleeping bag, 22 and 25 gas checks, 25 mold. Reasonable prices, C.O.D. subject examination. Life Member. A. M. Dryden, Post Office, Santa Maria, Calif.

WANTED—AGFA SPEEDEX OR ANY GOOD 2¼x2¼ Camera. Cash or trade H&R Sportsman Single Action, 200 L.R.H.S.H.P. and 250 large primers. Wiley E. Miles, Lewellen, Nebr.

WANTED—LARGE RIFLE PRIMERS; 7 X 50 binoculars; metal lathe up to 12" swing; fired cases of all calibers; state make, condition & price. L. E. Turley, Logan, Utah.

WANTED—.22 S & W KIT GUN; 1917 S&W; HI-Standard; Woodsman; M97 Winchester; M 39 Marlin; 45 Colt; shells; L. Pistol primers. Wm. Warga, 6519 W. Fairview Ave., Milwaukee 13, Wisconsin.

WANTED—REMINGTON MODEL 81, 300 SAVage and Weaver 330 Scope with tapered post reticule and type T-8 mount. Perfect or excellent. State condition and price. Harry D. Whitcomb, Bath, N. H.

PACIFIC TOOL AND SCALES, 250 AND 30-06. Also a few cartridges or components, 30-06, 30-40, 30-30, 300, 38-40, 32-20, 270, 250, 25-35, 25-20, for myself and neighbors to discourage coyotes around our ranches. Good 12 single. Trade 1½ primers for large pistol or rifle primers. Stephen Smith, Sonnette, Montana.

WANTED—22 WEBLEY AND SCOTT TARGET Pistol; 4.25 engraved or nickel Lilliput and ammunition; Stevens Autoshot, off-hand and 8" Target Pistol. Arthur Leidesdorf, Elberon, N. J.

WANTED—PERFECT, MODEL 141, 30 CALIber Gamemaster. Please state price. Charles Haynes, R.2, Hillsboro, Oregon.

WANTED—MATCH TARGET WOODSMAN AND B&L Prismatic Spotting Scope. Roy Luther, 124 S. West St., Anaheim, Calif.

REMINGTON 720-S OR WINCHESTER 70 CALIber .257 new or fine. Cash or some .257, .22 Hornet and .22 LR ammunition on deal. R. Wipprecht, 515 S. 42nd St., Omaha 5, Nebr.

WANTED—MODEL 70, .220 SWIFT TARGET or Varminter, excellent to perfect, and ammunition. Albert A. Slocum, Greenwich, N. Y.

WANTED—MODEL 70 WITH AMMUNITION IN .22 Hornet, 250-3000, 30-06 or 270. Very good or better. J. E. Fraley, Converse, Indiana.

WANTED—10X SHOOTING COAT (MEDIUM); also Detective Special $35.00. W. A. Ball, Oneida, N. Y.

WANTED — REMINGTON 45-70 SS ROLLING block cavalry carbine; also cartridges. Wm. Karvonen, 1001 E. 2nd, Aberdeen, Washington.

WANTED—WINCHESTER AND OTHER SINGLE shot rifles any condition describe fully with price to H. L. Pendleton, Barre, Mass.

WANTED—FOREIGN MILITARY PISTOLS, REvolvers, machine guns and machine gun accessories. D. L. Smith, 17301 Wisconsin, Detroit, Michigan.

WANTED — ITHACA PUMP, FEATHERLIGHT, 12 ga 26" or 28" modified. State condition and price. C. Cipolla, West Grove, Penna.

BROWNING 12 O&U BARRELS OR GUN, PERfect, excellent. Joseph Jennings, 3425 Palm, San Diego, California.

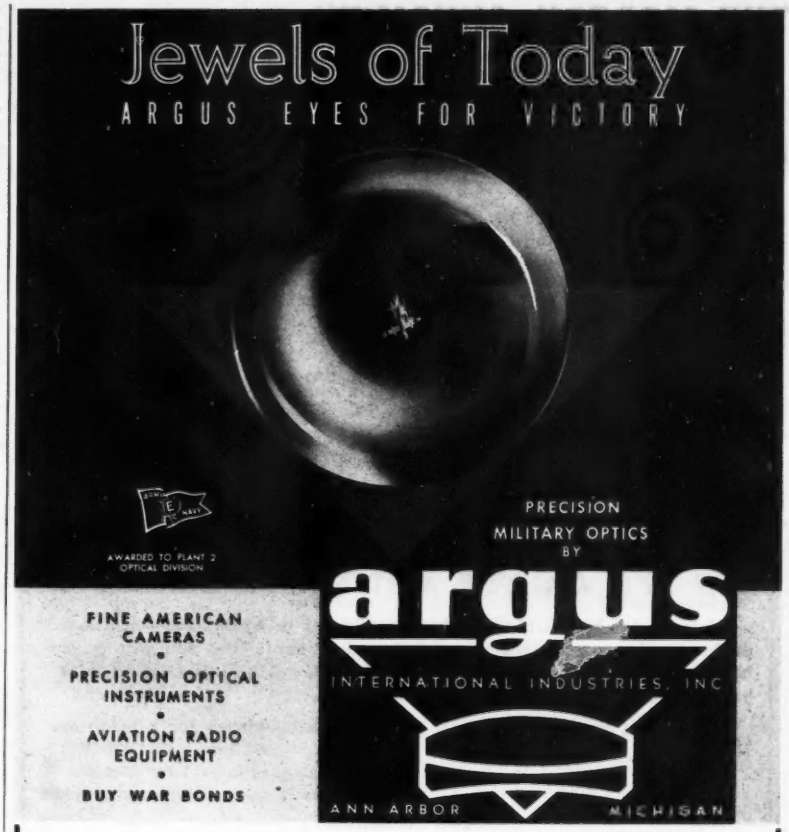
WANTED—REMINGTON 81, .300 OR .35 CALIber with cartridges, must be very good to excellent, state price. Jay Radke, 105 E. Commercial, Appleton, Wisconsin.

WANTED — 7 MM. MILITARY MAUSER, 28 gauge Ithaca double. Must be very good or better in. Charles Collins, Redwood Falls, Minn.

WANTED—.30 CALIBER BULLETS GOVERNment or soft point. Have some ammunition and primers to trade. Stephen Neville, Evanston, Wyoming.

WANT—SAVAGE SINGLE SHOT HORNET WITH some ammunition. Geo. F. Dominick, Jr., Long Brow Plantation, Green Pond, So. Car.

WANTED — FLINTLOCK RIFLE, PISTOL, Springfield C, Kentucky, engraved Browning, antiques, skeet double. Felix Phillips, 1508 Clover Drive, Amarillo, Texas.



"Watching the Enemy"

The U. S. Army and Navy have vital need for every available Scope and Optical Instrument. The lives of our soldiers and sailors depend on clear vision and accurate sighting.

At present Argus Eyes are watching the enemy by the production of these optics for war, but this fine precision workmanship and clear vision will be available to civilian sportsmen after the war.

Buy War Bonds

WANTED—LYMAN JUNIOR TARGETSPOT OR Targetspot with mounts and cross hair reticule ten power or stronger; also model 70 Hornet, excellent condition. Will pay fair prices. Dr. George L. Kesel, 1008 Pitt Bank Bldg., Pittsburgh, Penna.

WANTED — WINCHESTER CATALOG, COMplete, any year, 1901 to 1905, pay one dollar, or trade box .22 high-speed hollow points. C. R. Arthur, Thebes, Ill.

WANTED—WIN. M-70, .30-'06 WITH ALASKAN Scope. Also Win. M-40 auto shotgun with poly choke. Also Win. M-63, .22 rifle. All must be in excellent condition. Want ammo. with M-70 and M-40. Major J. B. White, Jr., Hq. 661 T.D.Bn., Camp Hood, Texas.

WANTED—REASONABLE PRICED '06 RIFLE; also Enfield or 98 Mauser action; 2 or 3 boxes 32-20 cartridges. Bert Gerber, Amboy, Wash.

WANTED—PERFECT 23D HORNET, NO SCOPE. Have new Lyman 48 Springfield S.S., to trade for new Lyman 48M Receiver sight. C. A. Bowles, Florence, Arizona.

WANTED—CASE 12 GA. ALSO CASE 3"-410 GA. receiver sights for Mauser. Roy Vail, Warwick, N. Y.

1861 WINCHESTER HENRY PATENT BRASS framed carbine, excellent to good. What have you? B. H. Darrough, 3304 San Jacinto, Houston, Texas.

WANTED — FOR CASH: KENTUCKY FLINTlock and percussion rifles, also military long arms. Robert Abels, 860 Lexington Avenue, New York 21, New York.

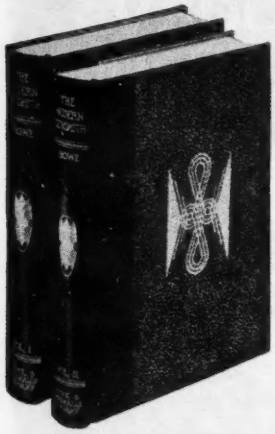
WANTED—VERY GOOD 16 GA. FIELD GRADE double, 26 inch improved cylinder and modified. Fox or Ithaca preferred, with some ammunition. Very good Stevens or Marlin Automatic rifle, cal. .22 long rifle. 12 or 16 ga. empty shotgun shells to take Remington #33 or Western improved #3 primers. Richard A. Kunkel, Judson, N. Dak.

COLTS 45 AUTOMATICS AND COLTS OR SMITH & Wesson 1917 Model to shoot 45 Automatic cartridges, will buy for cash or trade, we have largest stock of guns in the Middle West today. Jim Craton's, Davenport, Iowa.

WANTED — LYMAN TARGETSPOT. JOSEPH Milts, 234 Trumbull Ave., Garard, Ohio.

SELL YOUR SINGLE SHOT RIFLE TO "SINGLEShot" Ratliff, N4912 Market, Spokane, Wash. Describe fully and quote price. tf

THE MODERN GUNSMITH by James V. Howe



THIS MASTERPIECE OF SCIENCE, LITERATURE AND ART BELONGS IN THE LIBRARY OF EVERY GUN LOVER. BE INFORMED. KNOWLEDGE IS POWER. WE HIGHLY RECOMMEND THE FOLLOWING BOOKS:

The Modern Gunsmith, by Howe	$15.00
The Bullet's Flight, by Dr. F. W. Mann	6.00
Complete Guide to Handloading, by Phillip Sharpe	7.50
Big Game Hunting and Marksmanship, by Lee	2.00
Advanced Gunsmithing, by Vickery	4.00
Handloaders' Manual, by Earl Narramore	3.50
Firearms Bluing and Browning, by Angier	2.50
Sixgun Cartridges and Loads, by Elmer Keith	1.50
Big Game Rifles and Cartridges, by Keith	1.50
Automatic Pistol Marksmanship, by Reichenbach	1.50
Sixguns and Bullseyes, by Reichenbach	1.50
Telescope Rifle Scopes, by Whelen	1.50
The Woodchuck Hunter, by Estey	1.50
A Rifleman Went to War, by McBride	3.50
Textbook of Firearms Identification, by Hatcher	7.50
Textbook of Pistols and Revolvers, by Hatcher	4.25
Modern Gunsmithing, by Clyde Baker	4.50
Book of the Springfield, by Crossman	4.00
Military and Sporting Rifle Shooting, by Crossman	4.50
Modern Shotguns and Loads, by Askins	4.00
The Muzzle Loading Rifle, by Cline	7.00
Encyclopedia of American Hand-Arms, by Hardin	8.00
The Sharps Rifle, by Winston Smith	3.00

ORDER TODAY WHILE THEY ARE STILL AVAILABLE

Latest editions, sent postpaid for your check.

THE GOPHER SHOOTERS SUPPLY

FARIBAULT MINNESOTA

As We Begin Another Year...

We've had a lot of things to be thankful for this past year—health, a moderate share of prosperity, and friends; people like you who have helped us and whom we have helped; friends whose estimate of us is based on confidence in our own line.

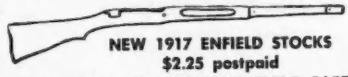
So, each of us extends to you and yours best wishes for a brighter New Year.

Yours for Victory in 1944.

GENE MITCHELL

V. H. BLACKINTON & CO.

P.O. BOX 261, Ben Franklin Station **Washington, D. C.**



NEW 1917 ENFIELD STOCKS

$2.25 postpaid

Send 3¢ stamp for list MILITARY RIFLE PARTS: Springfield; Enfield; Krag and Mauser. Barrels; Actions; Stocks and Inletted Blanks. Fine Custom Gun Work; Rebluing; Restocking.

ALAMO GUN COMPANY

P.O. Box 2567 San Antonio 6, Texas

AMMUNITION

TRADE—200 NEW 150 GRAIN SOFT POINT, .270 Winchester cartridges in Peters High Velocity brand for equal quantity of .220 Swift 48 grain loads in any standard brand. W. H. Hall, Rt. #2, Godfrey, Illinois.

M 1 30-06 1938 172 GRAIN BOAT-TAIL $5.00 per bandoleer. Want—#3 Ideal tool Winchester 32-20. George Milnes, 403 Wayne Avenue, Ellwood City, Penna.

TRADE ONLY, WANT—30-40-180 GRAIN FACTORY loaded sporting cartridges, soft nose, will give 4 boxes 35 Rem. (Rem. make, fresh) for 3 boxes of above and pay all express charges. W. W. Herrick, Milford, New Jersey.

8 BANDOLEERS F.A. 35 ISSUE 30-06. $4.50 PER bando. Shipped express collect. 10% deposit on C.O.D.'s. O. R. Doane, 516 4th Street, Anacortes, Washington.

FOR PRIVATE USE. I WILL PAY CEILING price for 22 shorts and 22 long rifle any standard make. Ray Randolph, 3943 Delaware Street, Gary, Indiana.

WANTED—300 SAVAGE, 30-30, 348 AND 357 cartridges. Bielefeld, New Knoxville, Ohio.

GUARDS, POLICE, LEGITIMATE PURCHASERS. Send for form entitling you to primers. Custom reloading. Fed. Licensed. F. A. Emerson, 157 Auburn St., Auburn, Mass.

TRADE — AMMUNITION: .375 CALIBER 300 gr. 9 mm. Mauser 280 gr. 7 mm. 139 gr.; 30-30 Silvertip; 45 caliber government issue; 9 mm. Luger; 22 L. Rifle kleanbore; 10 ga. Magnum Super X No. 2's and 4's; 300 Savage 180 gr. 25 caliber bullets, 87, 100 and 117 gr.; 6.5 mm. 160 gr.; 375 caliber, 270 gr.; 1000 No. 120 primers; fired cases caliber 220, 257, 300 Savage. Want: 220 Swift bullets Sisk or Winchester make; 12 ga. regular 6 or 7 size shot. Joe Burkhart, St. Croix Falls, Wisconsin.

AMMUNITION, ALL TYPES WANTED. STATE condition, age and caliber. High prices paid. Make offer. Stoeger Arms Corporation, 507 Fifth Avenue, New York, N. Y. tf

WINCHESTER 74 AUTOMATIC, 22 SHORT, NEW $25.00, ammunition 270 Winchester, 35 Winchester, 303 Savage, 30 Remington, 25 Remington, 22 Savage Hi-Power, 32 Short rim-fire, 38 Colt Automatic, 30-06 in sealed boxes, 45 Automatic. All good clean factory stock. Wanted—Shotgun shells, 22 ammunition and all kinds of primers. Martin Hollander, 3947 North Clerose Circle, Cincinnati 5, Ohio.

TRADE—100 SHELLS FOR 38 AUTOMATIC. Wanted—Shells for 32 Colt Automatic and 380 Remington Automatic. All letters answered. N.R.A. Member, I. F. Sprague, P.O. Box 1553, Norfolk, Va.

TRADE—ELEVEN BOXES FRESH FACTORY .30-06 Winchester soft points, Western Silvertips, 220 grain for case sixteen gauge non-corrosive smokeless 7, 7½, 8 shot, drop or chilled. Howard Bickerstaff, Rt. #4, Chattanooga 9, Tennessee.

WILL TRADE THESE CARTRIDGES, ALL NEW stock .30 Remington rimless, .219 Zipper, .44 S&W Special lead for other good sizes we need. What Have You? Hudson Sporting Goods Company, R-52 Warren Street, New York.

WANT — MODERN AND OBSOLETE CARtridges all sizes. Send list for quotation.. Ed. Howe, Coopers Mills, Maine.

SCARCE AMMUNITION: .30 CALIBER SHORT rimfire, $1.00 box 50; .41 caliber Italian Vetterli centerfire, $6.60 per 100. Hudson Sporting Goods Company, R-52 Warren Street, New York.

6 BOXES 12 GA. SHOTGUN SHELLS, HI-BASE, #5 shot, for 2000 N.M.N.C. pistol primers in sealed packages. W. Nittler, 1454 6th Ave., San Francisco 22, Calif.

SEND THREE CENT STAMP FOR LATEST LIST of Modern and Obsolete cartridges. Kimball Arms Company, Woburn, Mass. tf

AMMUNITION WANTED FOR DEFENSE PURpose. We mean business. 22 long rifles. 12, 410. gauge, 303 Savage or what have you. Will trade .30-06 for 22 long rifles. Adrien Grenier, North Grosvenordale, Conn.

WANTED—.30 CALIBER (7.63 MM) MAUSER cartridges, also .35 Remington mushroom cartridges. Must be non-corrosive, prefer Super X. Harris Pettee, 15 Wingate Road, Providence, R. I.

WANTED FOR CASH, AMMUNITION, ANY quantity, all calibers. Write Public Sport Shops, Dept. R-67, 13 S. 16th St., Phila., Pa.

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Winchester cartridges .32 S.L. Soft Point $6.50 per hundred. Winchester .35 S.L. cartridges $6.50 per 100. .38 Rim Fire Winchester revolver cartridges, $2.00 per hundred. 38-56 Soft Point rifle cartridges, $10 per 100. 275 H&H Magnum 175 gr. Soft Point rifle cartridges, $15.00 per 100. 30 Government 1903 Soft Point 220 gr. Western Cartridges, $10.00 per 100. 30-06 Metal Patch 172 gr. Late issue F.A. cartridges, $10.00 per 100. 22 Remington Auto loading rifle cartridges $15.00 per 1000. 38 Automatic Pistol cartridges $4.50 per 100. 405 Winchester staynless, $15.00 per 100. 7.65 Mauser rifle cartridges, Peters Rustless, $10.00 per 100. 45 Automatic pistol cartridges $6.50 per 100. 35 Caliber Smith & Wesson Automatic cartridges $5.50 per 100. 44 Henry flat lead cartridges, $4.00 per hundred. Public Sport Shops, Dept. R-67, 13 S. 16th St., Phila., Pa.

SHARPS AMMUNITION—.44-70, .44-60, .40-90 b.n., .40-50 (all paper patch) most in original boxes, 20¢ each, in lots of 10 or over. 600 .30 (1903) F.A. Blank Cartridges, 3¢ each. Paul Ratliff, N4912 Market, Spokane, Wash.

CARTRIDGES FOR COLLECTORS, SINGLE specimen, some boxed lots. List. Stamp. Ed Howe, Coopers Mills, Maine.

WANT—L.R.'s, ALSO .22 HORNETS. MEMBER. Ralph Nobles, P.O. Box 1663, Santa Fe, New Mexico.

WANTED—6.5 MM. CARTRIDGES, 200 ROUNDS. J. T. Winburne, 5073 Tholozan Ave., St. Louis, Mo.

RELOADING SUPPLIES & HANDLOADS

B&M RELOADING TOOL, 30-06 WITH BULLET seater, 2 bronze bullet moulds, 927 F.A. primers, 190 plain base bullets, 465 G.C. bullets sized and lubricated, 293, 172 gr. B.T. bullets, 130 empties, $35.00. P.O. money orders only. J. E. Etherton, 2917 No. Washtenaw, Chicago, Ill.

SEND 20¢ FOR BIG SINGLE SPECIMEN PRICE List #405 of cartridge collectors items. Want empty shotgun shells, wads, primers, shot and powder, send detailed list with your prices. Charles Shattuck, Cherry Creek, N. Y.

TRADE—1940 F.A. PRIMERS, #70; BULLETS, 172 BT, for prewar Hornet bullets. Write, E. R. Epperson, 224 W. State, Enid, Okla.

WANTED—JACKETED BULLETS .223 or .224, also 30-30 cases and large rifle primers. Have purchasers permit. Will pay any price within reason. D. B. Mitchell, Rt. #3, Summerdale Ave., Rockford, Illinois.

FOR SALE—44-40 CASES. NEW. LARGE STOCK. $3.36 a hundred. R. J. Miller, 355 Hayes St., San Francisco, California.

WANTED—POWDER SCALE AND WEIGHTS. Small pistol primers, N.M.N.C. for police training, have permit. E. A. Rockwood, Chief of Police. U. S. Automatic Corp., Amherst, Ohio.

WANTED—IDEAL #3 LOADING TOOL WITH double adjustable chamber and muzzle resizing die. Must be good or better. Mason Jones, 330 S. W. Sixth Ave., Portland, Oregon.

WANTED—SCHMITT RESIZING DIE AND BULlet seater for 2R Lovell and Varminter. Capt. Arthur Snyder, 503 South Veitch St., Arlington, Virginia.

TRADE—5,000 NMNC PRIMERS FOR 10,000 FA 70 primers. Want Winchester #70 30-06 bolt, also hi-Standard MB magazine. C. B. Young, 3014 Jackson, Alameda, Calif.

AMMUNITION WANTED SMALL OR LARGE quantities, 30-30; 32 special; 35 Rem.; 30-06; .300; .22's, send description and best cash price. The Jaymac Co., Jackson, Michigan. tf

WILL PAY ANY REASONABLE PRICE FOR 500 No. 1½ and 500 No. 2½ primers. Harry R. Quinby, Life Member, 485 W. 31st, Long Beach 6, California.

TRADE 10000 Remington #9½ primers for Western #8½ or Winchester #115 or #120. Geo. Semonsen, 591 Mission Street, San Francisco, Calif.

HORNET IDEAL LOADING OUTFIT EXCELlent, including Tool, Sizing chamber, shell expander, mould No. 224450, dipper, lube, thousand gas checks, 500 primers, 116, 300 S.P. 40 grain bullets, 100 cast bullets, sized, gas checked, lubed, 150 cast bullets, 360 fired cases. Entire outfit only $40.00. Charles Baker, 1704½ Jefferson Street, Bluefield, W. V.

WANTED—AMMUNITION, BULLET MOULD, Ideal reloading tool, and components for 45-70. Tang sight for Sharps. Capt. F. S. Henika, Camp Headquarters, Camp Wolters, Texas.

HUNTERS, SAVE YOUR EMPTYS, HAVE THEM reloaded or sell. Custom ammunition, guns. List for Stamp. F. Emerson, Box 54, Auburn, Mass.

TRADE—1½ REMINGTON PRIMERS, 22 LONG rifle cartrides, 38 special reloads and some various caliber ammunition, for 8S. Wotkyns Mores bullets or good rifle scope. Will also trade any item in my for sale ad. C. H. Lawson, 89 Myrtle Ave., Edgewater, N. J.

STANDARD BULLETS SIZED AND LUBRIcated for .38 Special, 32-20, $1.25 per hundred, .45 Automatic $1.50. Most rifle and pistol powders. Send for sample of .22 caliber bullets. Milo Hill, Caledonia, Ohio.

HAVE SEVERAL HUNDRED CASES, VARMINTers, .250-3000, .300 Savage made up. Prepaid for $7.00 per hundred. Cases made from your .30-'06, .257R brass $5.00 per hundred plus transportation. Samples for dime. M. O. Smith, Oneida, Ill.

CASES FOR VARMINTER, .250, 300 SAVAGE, 7mm. from .30-06, &c. Shivell, 4323 Sunset Blvd, Los Angeles 27, California. tf

WANTED—PRIMERS NEW #4, FOR SHOTGUN shells or larger size for same, will pay fair price, any amount. Louis Renzi, 29 East Pearl St., Burlington, N. J.

TIME TO BUILD TRUITT'S INEXPENSIVE, adjustable powder measure. See Dope Bag, August, 1939. Full size drawings and instructions, one dollar money order. R. S. Truitt, Walcott, Iowa. 1-44

WANTED—25 CALIBER, JACKETED BULLETS for personal use. Will buy 87, 90 or 100 grain bullets. P. Hipple, M.D., Roselle, New Jersey.

WANTED—.257 AND .25 CAL. BULLETS AND large rifle primers, also Wotkyns Morse 22 bullets. Willis Pointer, Sheridan, Wyoming.

TRADE ONLY—1000, WESTERN #7, 900, Peters #12, NMNC primers. Want same amount small rifle and pistol primers. P. C. Richardson, 2836 D St., Eureka, Calif.

WANTED—PACIFIC SCALE COMPLETE. LYman's 308 284 mould and blocks for 311 413. Must be very good or better. Needed by owner of poultry farm. Harold Belknap, Central Square, N. Y.

CUSTOM RELOADING, ALL POPULAR CALIbers. Will trade up to 10,000 small rifle primers for large rifle primers. Also need large pistol primers, fired cases, bullets, all sizes, moulds, power grinder, drill press metal lathe, binoculars. Member N. R. A. L. E. Turley, Logan, Utah.

TRADE—LARGE AND SMALL RIFLE PRIMERS, F.A. Ammunition for 28 gauge shotgun primers. J. C. Hamilton, Warrenton, Va.

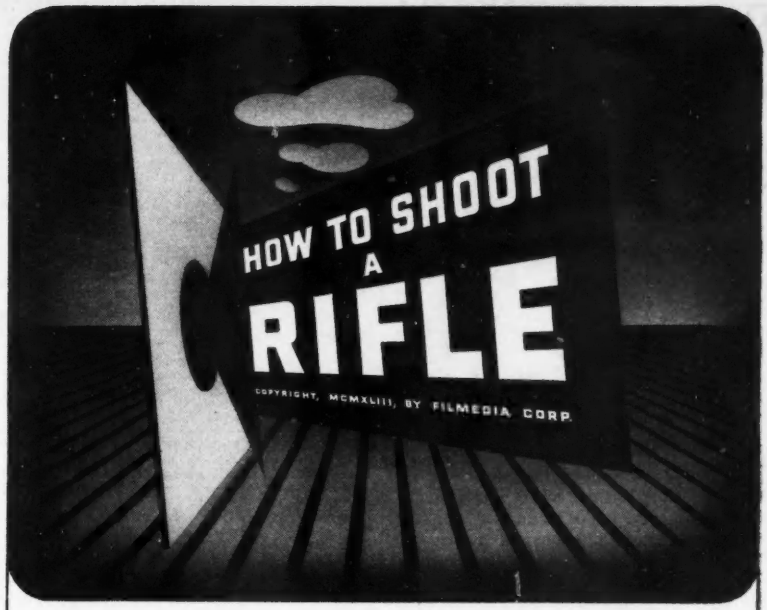
WANT—100 CASES 2R LOVELL OR 25-20 S.S. loaded or empty 2000 small rifle primers, 2500 bullets Watkins-Morse or any .224", 41 to 55 grs. Also .30-06 or 30 caliber game bullets, any weight. Will pay asked price. State quantity and price. Wm. M. Knauf, Rt. #2, Evans City, Pa.

FOR SALE—STAR RELOADING TOOL WITH dies for .38 Special. About 4500 No. 1½ primers, over 4½ lbs. of #5 powder. Two B&M moulds. Ideal melting pot, some scrap lead, empty .38 Special shells and reloading bench. $190.00. Will not be sold separate. Details on request. Harold Greek, 905 South Freedom Ave., Alliance, Ohio.

WANTED—EXCELLENT IDEAL #10 TOOL, 30-06, 30 Remington or 300 Savage complete or handles only. 30 Caliber 169 gr. mould. Trade 30-06 commercial cartridges. Larry Calligan, Hillsdale, Mich.

HANDLOADS 1200, 45 AUTOMATIC LEAD BULlet. 600, 38 Special, nickel cases. Semi W.C. bullet, 3 grains bullseye. 800, 38 Special brass cases, 2.6 grains bullseye. J. H. Martin, Calhoun City, Miss.

TRADE—PRIMERS NMNC #1½ AND 2½ sealed boxes. 1,000 of each. What have you? G. A. Staniar, Short Hills, New Jersey.



Announcing

a new 16 mm. sound film to create interest in marksmanship and to teach students the secrets of rifle shooting. The film, based on the current training program of the National Rifle Association, was produced in cooperation with the U. S. Army and the Pre-Induction Training Branch of the War Department. It has also been adopted by the Army Air Forces for its excellence as a review for previously trained gunnery students.

This new film is invaluable for pre-induction classes, rifle clubs, police and other protective groups and for general community gatherings.

Everyone, young and old, will thrill at seeing this film for it reveals, as only movies can, the "inside" of a skill in which red-blooded Americans have always found strength in battle and recreation in times of peace.

"HOW TO SHOOT A RIFLE"

(RUNNING TIME, 33 MINUTES)

Three reels, 16 mm. black-and-white sound film. Complete with 1200-foot reel and can. $120.00, F.O.B. New York City.

ORDER FROM NATIONAL RIFLE ASSOCIATION, WASH., D. C. — OR

FILMEDIA CORP. • 14 EAST 47th ST. NEW YORK 17, N. Y.

WANT—HORNET, K-HORNET HANDLOADS OR components. 41 grain, 55 grain Sisk, 60 grain Barnes bullets. Trade only for (or will buy) 50-55 grain 8-S or Sisk express bullets. Tracy Kinkade, 6134 Lucille, St. Louis, Mo.

BOX .30 REMINGTON AUTOLOADING SILVERtips. Box 32 Winchester Special Corelokt. 30 caliber bullets; 100 M1 boattail, 115 old service, 75 cast, 50 mixed sporting. 50 30-06 cases. $23.00. Roy Bakkum, Waukon, Iowa.

IPCO COLLOIDAL GREASE WADS (RIBBON form) are an investment in better groups; furnishing gas seal, retarding erosion. Ipco Wads may have helped your friends shoot better groups. Ipco Colloidal Bullet Lubricant insures barrel protection, retarding or eliminating fouling. Extend barrel life with Ipco Products. Boxes $1.00 each, delivered. Industrial Products, 102 Pearl, Boston 10, Mass.

MODERN BOND TOOLS AND MOULDS AVAILAble at list. Send orders. Franzitt Grips. Wanted: Primers. F. Emerson, Box 54, Auburn, Mass.

AMMUNITION, MOSTLY LARGE CALIBER black powder rifle types, at 1942 list prices. Some smokeless. Some components. No primers. No list. State wants. Calvin Goddard, 3533 Quebec, Washington, D. C.

FOR RENT: MOULDS, DIES, ETC. I NEED A1 fired rifle cases. Trade cast bullets for ? New Weston Jr. Exposure Meter for ? Helmer Romness, Zumbrota, Minnesota.

CUSTOM LOADED AMMUNITION, FEDERAL licensed, all calibers, lead bullets used mostly. Want: Metal cased bullets, primers, cases, fair prices paid, write and make your proposition in first letter as I spend as little time from my loading as possible, all letters answered, now located in my new and larger store, and catering to mail order and the shooting game. Art Binder, 276 Lorton Ave., Burlingame, California.

GUNSMITHING

WANTED—TWO ENFIELD 06 RIFLE BARRELS. Write James E. Ness, 422 East Madison St., Rapid City, S. D.

BLUING, PLATING, REFINISHING, CHECKing, Careful Custom work, prompt service, satisfaction guaranteed. Repairing. Bluing Material Sold. Blueing salts. Gun Reblu Company, 322 FF Plant, Tampa, Fla. tf

Swell! The Same Mount I Used Back Home!

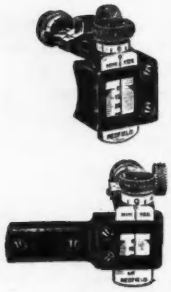
SURE, the boys know they can put those shots right in there where they count! This Redfield Junior Mount is a familiar old friend to thousands of American sportsmen now in the armed forces—the same mount they used "back home" on favorite hunting and target rifles.

STANDARD

REDFIELD SIGHTS

ADOPTED BY ARMED FORCES

without change!



• Besides the Redfield Junior Scope Mount, adopted for snipers' rifles, the Ordnance Department chose two of Redfield's famous MICROMETER sights . . . picked them out from STOCK models . . . just as YOU would choose a REDFIELD sight from your dealer's shelf or from our catalogue.

Now, of course our entire output goes to the armed forces

REDFIELD GUNSIGHT CORP.

3315 Gilpin St., Denver, Colorado

GREETINGS FOR THE NEW YEAR!

We quote from a letter just received from our "boss"—Lew Bulgrin—

"—those reports on the first 11 months were more than gratifying—I had no idea there was that much business to be had—" "Give my friends my very best wishes for the coming holiday season —especially do I wish them a very Happy New Year—made happier by an end of this war. Believe me I will be glad to get into clothes without bars on the shoulders and get back to shooting just for fun again."

Free catalog—current list of used and new bargains.

BADGER SHOOTERS SUPPLY
OWEN, WISCONSIN
PROTECT YOUR GUNS UNTIL VICTORY

WANTED TO BUY
100 Rifles, Shotguns, Pistols, Revolvers, Game and Target Scopes, Binoculars. Give description and quote prices. We trade. Gopher Shooter's Supply, Faribault, Minnesota

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Springfield army rifle slings 1¼" used, fine condition, can furnish any quantity, 75¢ each. Webbing slings 1¼" wide, used, good condition, 45¢ each. Whelen oiled rifle slings 1" brand new, $1.50. Whelen rifle sling traps 1¼", brand new, $1.65, swivels 75¢ per pair. Springfield sight gauges $1.00. Brass clips for .30-06 cartridges, $1.25 per hundred. Canvas canteen covers, fine condition 25¢. U.S. Army Military haversacks, fine condition 60¢. Colt boot hooks for riding boots, 60¢ per pair. Public Sport Shops, Dept. R-67, 13 S. 16th St., Phila., Pa.

WANTED—COLT .45 AUTOMATIC FRAMES OR complete guns in poor condition. E. S. Burrell, 717 Wyndmoor, Phila. 18, Pa.

"I DUPLICATE ANY GUN OR RIFLE STOCK ready for fitting $5.00. Dave W. Thomas, Vineland, N. J.

RIFLE AND GUNSTOCK BLANKS IN FOLLOWing woods: American Walnut cut from crotch and stump figure. Circassian Walnut. Extra fancy Oregon Myrtle, beautiful figure and Bird's Eye Maple. Wholesaler, with sawmill supervision insuring right grain in grip. Cheapest prices obtainable. Special inletting service to gunsmiths. D. W. Thomas, P.O. Box 184, Vineland, N. J.

ANTIQUE ARMS REPAIRING PROMPTLY DONE at moderate prices, also blueing and old style browning. Kimball Arms Company, Woburn, Mass. tf

SPRINGFIELD RECEIVERS, AS ISSUED $7.50, heat treated $9.00 each. Trigger guards $3.60, Extractors $1.50, Ejectors 50¢. Also Colt .45 Automatic parts, except frames, slides and barrels. E. S. Burrell, 717 Wyndmoor, Phila. 18, Pa.

BRAND NEW BARRELS: .38 COLT SUPER Automatic, $3.95; also, .380 Colt Automatic, $2.95; new Service .45 Colt 5½", $5.50; Police Positive .38 Special, 6", $4.75. Hudson Sporting Goods Company, R-52 Warren Street, New York.

GUNSMITHING, REPAIRING, REBLUING, REmodeling, Restocking. Fred Herrick, Seeley Lake, Mont. 3-44

KILBOURN—HORNET, DEADLY ON CHUCKS and crows. 3,000 F.P.S. velocity with 45 gr. bullets, 2,900 F.P.S. with 50 gr. Your Hornet rechambered $5.00. Magazines altered for long bullets, Winchester, Savage, $2.00. Lysle D. Kilbourn, New Hartford, N. Y. tf.

CHRISTY GUN WORKS, 874 57TH STREET, Sacramento, Calif. tf

CHECKERING TOOLS, HAND MADE BY checkering expert. Set of three. Checker, Border and Cleaner; also directions, complete, $2.75 postpaid. Warner's, 354 Hamilton Avenue, Norwich, Conn. tf

FIGURED WALNUT RIFLE BLANKS FROM $3.50; Specials from $10.00, every blank guaranteed, delivered free. Horn tips, 50¢. Mitchell Bosly Co., Ltd., Little Shadwell St., Birmingham, England. 7-46

OREGON MYRTLEWOOD GUNSTOCK BLANKS. "The Most Beautiful Wood That Grows." Prices $3.00 to $10.00. Catalogue upon request. Beaumont's, The House of Myrtlewood, Marshfield, Oregon. 9-44

ARTISTIC ENGRAVINGS ON FINE GUNS; game scenes in relief; gold inlay; scroll work, etc. Folder on request. A. Griebel, 4724 No. Keystone Ave., Chicago, Ill. 7-44

99 SAVAGE CHANGED TO 300. MAUSER 98 changed to .30-06. Enfield to cock on opening. Stocks, Bluing. Unobtainable parts made. Custom rifles. Bayers Gun Shop, Walla Walla, Wash. tf

WANTED—INLETTING RASPS ½ and ¾ ALSO lower barrel band with swivel for D.C.M. Springfield issue Sporter. Russell Starn, 624 Duryea St., Raymond, Wash.

WANTED—BARREL BORED AND RIFLED FOR .270 WCF unthreaded, unchambered 22-26" length. Description and price first letter. J. L. Folly, 104 East Vine St., Lancaster, Penna.

FOR SALE OR TRADE—SECOND HAND SHOOTing supplies. Fair prices paid for shooting supplies, guns, barrel blanks, all kinds of gunsmithing, high class gunstocking. Ralphs Sport Shop, 407 Main St., Joplin, Mo. 2-44

OFFERING FEW WEBLEY & SCOTT SHOTGUN assemblies incomplete, to the trade, in 12 and 410 ga. Parts can be made. Consider exchange for gunsmith work. Roy Vail, Warwick, N. Y.

BINOCULARS, SCOPES, SIGHTS & CAMERAS

FOR SALE—ONE BRAND NEW MODEL #29S Weaver scope sight, complete $15.00. W. Linton Howard, 585 Wells St., S. W., Atlanta, Ga.

FOR SALE—G&H DOUBLE LEVER MOUNT FOR 22 mm. scope on M54 Winchester. Excellent condition. $22.00. L. E. Wilson, Cashmere, Wash.

"THE ORIGINAL SIGHT-EXCHANGE, BOX J. Paoli, Penna. Gun Sight Specialists. Mail us your old sights and tell us what you want." 1-44

WANTED—FOR CASH PRISM BINOCULARS, Field Glasses, Microscopes, Sextants, Surveyors and Builders Levels. Give description and price in first letter, all mail answered. Big Ben Mercantile & Loan Co. 179 Third St., San Francisco, Calif. tf

CAMERAS: UNIVERSAL, MODEL CC "MERcury" Candid, good. Univex, Model A-8 Cine Movie with case. Rifle Scopes: Winchester B-4 with mounts. Lyman 422 Expert with mount. Want: Small Rifle N.M.N.C. primers, Sisk Bullets. Paul Ratliff, N4912 Market, Spokane, Wash.

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Hensoldt 8x56 central focusing, Nacht, Dialyt, light weight, excellent condition $250.00. Busch, 8 x 24, individual focusing, like new $55.00. Leitz 8 x 30, central focusing, light weight, excellent condition $100.00. Zeiss, 8 x 24, central focusing Turachtem, excellent condition $85.00. Leitz 6 x 24, central focusing, Binolit, like new, $100.00. Hensoldt, 8 x 26, central focusing, Travel Dialyt, excellent condition $75.00. Public Sport Shops, R-67, 13 S. 16th St., Phila, Pa.

WANTED—ZEISS ZIELSECHS OR ZEISS ZIElacht in perfect condition. Will pay high price. Also Zeiss 15x60 binocular. Have Zeiss Zielvier lightweight would trade if necessary, but prefer to buy. Joseph I. Melanson, Wolfeboro, N. H.

ONE BAUSCH & LOMB BINOCULARS, 10X45 with case and straps. Perfect condition and just returned from factory cleaned, relubricated & adjusted. $150.00. Newton L. Smith, 10 Union St., Brandon, Vermont.

VION RANGE SCOPE, 33X, WITH O'HARE TRIpod. Optics excellent, exterior shows wear. $20.00. Joel H. Hayes, Greenbriar Lane, Port Washington, L. I.

WANTED—REDFIELD JR. MOUNT FOR 330 Weaver and Springfield. State Price. Dr. F. L. Doane, Red Bluff, California.

FOR SALE — LEITZ 8X30 BINOCULAR AND case. $110.00 C.O.D. with examination privilege. Gustav Marx, 125 E. Wells St., Milwaukee 2, Wisconsin.

GOERZ BINOCULARS 6X30 INDIVIDUAL focus. Good. $40.00, case. Wm. Withum, Roosevelt Ave., Marblehead, Mass.

"TACKHOLE DOT," FLOATING CENTER Round Dot reticules for telescope sights. Target types $5.00, Weaver 330 or 440 $6.00 installed. Send for price list all other hunting types and illustrated folder. Enthusiastically endorsed by shooters everywhere. Completely accurate. Guaranteed. Quick service. Weaver scopes stocked. T. K. Lee, P.O. Box 2123, Birmingham 1, Alabama. 3-44

ZEISS BINOCULAR 18 POWER, 18X50 IN PERfect used condition. Price $250.00. Frank Hornig, 11 Rolling Street, Lynbrook, L. I., N. Y.

CASH FOR CAMERAS, BINOCULARS, TELEscopes, firearms. Good guns wanted in trade. National Camera Exchange, 11 So. 5th St., Minneapolis, Minn. 3-44

BINOCULARS, FIELD GLASSES, TELESCOPES, Watches, Diamonds, Jewelry. Buy, Sell, Trade. Write. Paul Schweer, Donnellson, Iowa. 4-44

BINOCULARS CLEANED AND REPAIRED. ESTablished 1925. Alignment corrected to 1/1000 radian on our special collimator. Mail your glass for estimate. Mirakel Repair Co., Mount Vernon, N. Y. 11-44

FOR SALE — ONE 50 MM. B&L SPOTTING scope with 19.5, 12.8 eyepieces, and fleece lined case. Wanted—One 1½ x 12.5 Fecker telescope sight. M. H. Hollis, 38 Westmoreland Ave., Longmeadow, Mass.

MOSSBERG SPOTTING SCOPE, NEW $20.00. E. Duncan, Essex, Conn.

FOR SALE—HIGH POWER ENGLISH TELEscope, $75.00. Harold M. Clark, 122 Benner St., Highland Park, N. J.

FOR SALE—CARL ZEISS 12X30 I.F. BINOCUlars. Good. $125.00. J. P. Heaton, 1241 No. 14th, Lafayette, Indiana.

WANTED — LATE MODEL HENSOLDT OR other good hunting scope. 2½x to 4x. Lloyd Raab, Vashon, Wash. 3-44

WORLD'S FINEST E. LEITZ WETZLAR LIGHTweight model binoculars $\frac{8 \times L\ 14}{115=6.60}$ excellent condition fair case. $130.00. Want Lyman 48K Redfield 100K or 90K for Krag. Emil McConnell, Mt. Arlington, N. J.

HENSOLDT ZIEL DIALYT 4X SCOPE, LARGE ocular and objective lens complete with G&H, double lever mount. No base. $135.00. George Pace, 3512 Cameron Mills Road, Alexandria, Virginia.

HENSOLDT BINOCULARS, VERY GOOD WITH case, 6x24, $35.00. Very good Winchester A-5 scope with mounts $25.00. Harold Wing, CCM, Ships Co-Gunnery, Camp Peary, Va.

NEW MARBLE-GOSS REAR FOR 52 H.B. ROUND top receiver $10.75. Arthur Lammli, Stanton, Nebraska.

WOLLENSAK SCOPE 15X LIKE NEW, LEATHER case, $12.00. Herbert Baurle, 4545 Keystone Ave., Chicago, Ill.

FOR SALE—GRAFLEX SERIES "D" 3¼X4¼. Cooke F2.9 lens, cut film magazine, K2 filter, leather carrying case, like new, $160.00. Dr. Sperber, 5202 Storer Ave., Cleveland, Ohio.

WANTED—RIFLESCOPE 10X TO 20X. GIVE details. J. A. Moroney, 1123 Second St., New Orleans 13, La.

FOR SALE — BINOCULARS, DERAISME-MAYrop, 8x25, cleaned with case. $45.00 or will trade for boat or outboard motor. Karl Hovland, Hingham, Mont.

ANTIQUES & CURIOS

FOR SALE—VERY GOOD SHARPS 4 BARREL Derringer Caliber 32 R.F., $40.00. One flint lock rifle fair, $20.00. Jim B. Matthews, 1000 Sycamore St., Big Spring, Texas.

REVOLVERS, MINERALS, STAMPS, COINS, Glass, Indian Relics. Catalogue 5¢. Vernon A. Lemly, Las Cruces, New Mexico. tf

COLLECTOR WANTS ANTIQUE AND OBSOLETE firearms, gun books, brass powder flasks and obsolete cartridges. Fred Braucher, 345 Lisbon St., Canfield, Ohio. 4-44

WANTED—CAP AND BALL COLTS AND OLD gun catalogs and books. Hawn, Box 52, Alhambra, Calif. 5-44

WANTED—FOR CASH: 44 COLT AND REMINGton Percussion Revolvers, poor to fine. Robert Abels, 860 Lexington Avenue, New York 21.

OFFERING COLLECTION OF HIGH GRADE cased double muzzle loading shot guns by famous makers. Also listing some desirable flint and percussion rifles in shooting order. Specify which list wanted. Stamp Please. Kimball Arms Company, Woburn, Mass. tf

ANTIQUE ARMS, BOUGHT, SOLD, EXCHANGED. Colt, or other ivory gripped models, cased outfits, big heavy Colt, percussion revolvers and American percussion or flintlock horse pistols particularly desired. Stephen Van Rensselaer. Established 1902. Mt. Kemble Avenue, Morristown, N. J. 4-44

$50.00 LARGE TIGER SKIN WITH MOUNTED head, second hand, others. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

AUTOGRAPHED FIRST EDITION BOOKS. GUN Collecting, $2.50; The Gun Collector's Handbook of Values, $3.00; Gun Care and Repair—A Manual of Gunsmithing, $3.75; Fingerprinting—A Manual of Identification, $3.75. All above books written by undersigned are sent postpaid and autographed on request. We also publish: Firearms in American History—The Revolver, 1800-1911, by Charles Winthrop Sawyer, in a limited, numbered reprint edition, $5.00, but not autographed. Charles Edward Chapel. 2824 Chatsworth, San Diego 6, California.

PREHISTORIC STONE TOMAHAWK 75¢. 100 good Prehistoric arrowheads, $3.00, 10 tiny perfect bird arrows, $1.00, Spearhead 25¢. List free. Caddo Trading Post, Glenwood, Arkansas. tf

WANTED FOR CASH: ANTIQUE FIREARMS, flasks, moulds, collections or single pieces. E. C. Ward, 406 Wilcox Bldg., Los Angeles 12, Calif. 2-44

WANTED — ANTIQUE FIREARMS, POWDER flasks, gun books. Will buy entire collections. Cash. James Serven, Box 1777, Santa Ana, California. tf

INDIAN RELICS, CONFEDERATE BILLS, coins, minerals, gems, fossils, crystals. Illustrated catalog 5¢. 100 ancient arrowheads $3.00. H. Daniel, Hot Springs, Ark. tf

FOR SALE: SEVERAL HUNDRED ANTIQUE pistols and revolvers for collectors and shooters. List 21¢. Wm. Locke, 3607 Ault Park Rd., Cincinnati 8, Ohio. 1-44

WANTED—VOLCANIC PISTOLS, COLT DERringers, powder flasks. Charles Fritz, 2169 Glenside, Norwood, Ohio. 1-44

FOR SALE — COLT .44 ARMY PERCUSSION. Well refinished, good bore, perfect shooting order. $30.00. Melvin Cross, Chappaqua, New York.

SPOTTING SCOPE AND STAND

Mossberg Model A—Spotshot $22.30

Mossberg Folding Stand $7.65

20-power single draw tube scope and stand. Sales are limited to Clubs, Small Arms Schools and Individual Members for Training or Home Defense purposes.

Sent postpaid at prices quoted to any of the above.

NATIONAL RIFLE ASSOCIATION
Scott Circle Washington 6, D. C.

LARGE STOCK OF AMERICAN AND EUROPEAN antique arms. Send 10¢ coin for new 10th edition catalog, featuring the important Colt collection of Frank A. Belden co-author of Colt History. Antique arms wanted. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

WANTED — ANTIQUE FIREARMS. ENTIRE collections or single items. Send description and price. T. J. Cooper, R. 7, Meadville, Pa. 2-44

ILLUSTRATED CATALOG OF ANTIQUE PISTols, Rifles, Swords, Rapiers, Daggers, Armor, 25¢. Robert Abels Shop, 860 Lexington Avenue, New York 21.

$4.00 STEEL SAFE DEPOSIT BOX. 14 X 14 inches. Double lock protection for valuable papers, jewelry, money. Mail orders filled. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

WANTED—MUZZLE LOADING TARGET RIFLES. Also Ballard, Stevens or Winchester, Scheutzen Rifle. T. J. Cooper, R. 7, Meadville, Pa. 2-44

WANTED—FOR CASH: ANTIQUE PISTOLS, Rifles, Swords, Daggers, World War Rifles, Relics, Collections, Single Pieces. Robert Abels, 860 Lexington Avenue, New York 21.

COLLECTIONS OR SINGLE PIECES PURCHASED at fair prices. Give full description. Kimball Arms Co., Woburn, Mass. tf

MISCELLANEOUS

BAYONETS, GENUINE 30-06 SPRINGFIELD. Grips and catch missing. $3.00. No personal checks. Stamp for reply. John Gschwind, 4124 No. Leamington, Chicago, Ill.

LIMITED EDITION—"GUNNERMAN'S GOLD." Bigelow—Author of "Gunnerman." Regular $7.50, deluxe full leather $12.50. Free folder. Soon "Muzzle Flashes," Ellis Christian Lenz. Over 100 reproductions of Lenz drawings. Reed Thompson, Jr., Lewistown, Pa. (Bookroom)

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

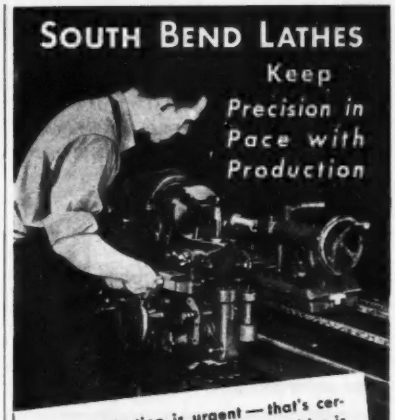
COMMANDO KNIVES 7½" RAZOR SHARP, double edge blade of finest steel, with guard, laminated leather handle, leather sheath and leg thong. $10.00. Extra heavy 9" blade, as above $12.00. Order now. Louis P. Loutrel, 95-16, 105th Street, Ozone Park 16, N. Y. tf

ADULT BOOKS FOR YOUR PERSONAL LIbrary. Sample and illustrated catalogs, 10¢. Alstone, 281, Lunenburg, Mass. tf

PATENTS— LOW COST. EASY TERMS. BOOK and information free. Highest references. L. F. Randolph, Dept. 370, 416 5th St., Washington, D. C. tf

FOR SALE—AMERICAN RIFLEMAN 1930 TO 1943, $3.00 per year. Doelp, Box 183, York, Pa.

WANTED—SPURS, CHAPS, BOOTS OR ANY Western equipment in any condition. All letters answered. John Ferguson, P.O. Box 31, Newport, R. I.



War production is urgent — that's certain. But production *without precision* is wasteful, even though quantities may be large and deliveries rush. Today, in hundreds of war production plants, precision keeps pace with production through batteries of South Bend Lathes. South Bend Engine Lathes and Toolroom Lathes are made in 5 sizes, 9" to 16" swings. Write for catalog.

SOUTH BEND LATHE WORKS
South Bend, Ind. Lathe Builders For 37 Years

Chemistry GIVES YOU A NEW GUN

MAJ. CHAS. ASKINS, Dean Amer. Arms Experts, Celebrated Writer: "Excellent deep-blue finish with surprising speed." NO HEATING — Not a paint. COLD CHEMICAL PROCESS responds instantly—ON CONTACT! Transforms rustiest guns into new fire-arms in minutes. Unsurpassed for patching. Color control. For tools, too! At outstanding Sporting Goods and Hardware stores everywhere. Avoid disappointment, accept no imitation. YOUR DEALER HAS IT. ASK FOR IT BY FULL NAME.

Generous Package $1.00

GRAHAM'S MILITARY GUN-BLU

GRAHAM CHEMICAL CO.
2745 Fenwick Ave., Balto, Md.

MILITARY GUN-BLU
THE CELEBRATED COLD CHEMICAL PROCESS

JOIN NOW! 1944 ROSTER OPEN

California Shooters—keep up with shooting in your home state. Read "The California Firing Line" regularly. N.R.A. members send for application blank. $1.00 year.

CALIFORNIA RIFLE AND PISTOL ASSOCIATION
Organized in 1929
Box 637 Belmont, Calif.

SCARCE ARTICLES — ELECTRIC MOTORS; Western Electric ¼h.p.A.C.; Westinghouse ¼h.p. Single Phase; Westinghouse 1/6h.p.A.C. All 110-60 cycle. Also two small motors from vacuum sweepers. Radios; Motorola console; Fideli-Ton portable (R.C.A. licensed). Guitar: Regal with case and instructions to play. Typewriter: Underwood #5. Want: Single shot rifles, binoculars, scopes, other firearms. Paul Ratliff, N4912 Market, Spokane, Wash.

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique guns, send coin 25¢ for your copy. Soft leather golf wood covers, $1.10 prepaid, set of three. Decoys, special sale, Mallard Drakes and hens, $1.29 postpaid. Duck decoys Mason Pattern, $10.50 per dozen, shipped prepaid. 30 caliber 1 pc. brass cleaning rods, $1.25 each. Leather boot with rubber recoil insert for shot gun or rifle, new $1.50 Truspart rubber recoil pads for shot gun or rifle, new $1.50 each. Iron Dumb Bells from 2 to 25 lbs. 25¢ per lb. shipped express charges collect. Air rifle pellets cal. 177—$2.00 per thousand. Cal. 22—$2.50 per thousand. .38 Special. cartridges cases, Chrome-Western for small primer, shot once $1.00 per hundred. Public Sports Shops, R-67, 13 S. 16th St., Phila., Pa.

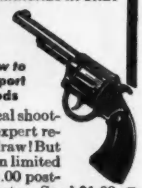
$5.00 GOVERNMENT FIBRE DESK TRUNKS with partitions and lock. Suitable for Medical Officers especially. Cost $30.00. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

PRACTICAL PISTOLEERING

by BARRY STORM

A WHOLE SERIES OF PRACTICAL REVOLVER SHOOTING MANUALS IN ONE!

1. Super-Speed Guns—etc.
2. Shooting Right (beginners)
3. Speed Shooting—all tricks
4. Defensive Gunplay—the how to
5. Handgun Hunting—a real sport
6. Quick-Draw—all fast methods



Now you can easily learn practical shooting, become a deadly shot, an expert revolver hunter, master lightning draw! But hurry! First autographed edition limited at introductory price of only $1.00 postpaid. 5 day money back guarantee. Send $1.00 at our risk NOW. Order today before you forget.

SOUTHWESTERN PRESS • BOX 71-AM, MESA, ARIZ.

ADD GUN POWER

with HOPPE'S No. 9

Clean guns are more efficient—show better power, patterns and pep—and Hoppe's No. 9 definitely keeps guns clean because it helps remove primer, powder and metal fouling completely—*and it prevents rust.* At your dealers or P.X., or send 10c for sample. Instructive "Guide to Gun Cleaning" FREE upon postcard request.

FRANK A. HOPPE, INC.
2321 N. 8th St., Philadelphia 33, Pa.

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique hand guns, send coin 25¢ for your copy. Shot gun covers, universal $1.25. Household Thermometers, new 75¢ value, brand new 25¢. Physicians Thermometers, pocket style with case, brand new, 3 for $1.00. Gun Oil, 1-oz. bottles, 15¢ each. $1.50 per dozen. Public Sport Shops, Dept. R-67, 13 So. 16th St., Phila., Pa.

WANT—OUTBOARD MOTORS—DO YOU WANT a new outboard motor when the war is over? Then if you have no time to use your present Johnson, Evinrude or Bendix, sell it to me. I will pay express and $2.00 per motor for crating. Don't delay, write immediately. Money order in advance. Fred Wehman, 111 Meeting St., Charleston, South Carolina.

LARGE STOCK OF AMERICAN AND EUROPEAN antique arms. Send 10¢ coin for new 10th edition catalog, featuring the important Colt collection of Frank A. Belden co-author of Colt history. Antique arms wanted. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

"THE REVOLVER TIMING RECORD. A 10-INCH RCA-Victor phonograph record. Practice Timed and Rapid Fire anywhere, by yourself. Nothing to watch—just listen. For 'dry' shooting, basement and outdoor ranges. One side 10 second timing, other side 20 second timing. Plays on any phonograph, $1.50, postpaid. The Original Sight-Exchange, Box J, Paoli, Penna." 1-44

WANTED — WANTED TO BUY HUNTING Knives of all descriptions. Public Sport Shops, Dept. R-67, 13 S. 16th St., Phila., Pa.

NEW CATALOGUE OF ANTIQUE ARMS AVAILable, antique arms bought, sold, exchanged. Established 1902. Stephen Van Rensselaer, Mt. Kemble Ave., Morristown, N. J. 1-44

RIFLE CLUBS: SPECIAL PRICES ON OFFICIAL N.R.A. Indoor Targets. T. G. Crain, 919 Millville Rd., Altoona, Penna. 2-44

JUNGLE BOOTS, GOVERNMENT REJECTS 10" canvas top, rubber sole and heel. Ideal for hunting or working. No COD orders. $3.95 pr. Passon Sport Center, 507 Market Street, Phila. 6, Penna.

15 RACING SHELLS, DOUBLES, FOURS, eights, also sweeps and sculls, cheap for quick sale. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

$3.50 GOVERNMENT CANVAS PUP TENTS with poles, second hand, other tents and Tarpaulins. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa.

RECEIVED TOO LATE TO CLASSIFY

BAUSCH & LOMB BINOCULARS, 6 x 30, CENtral focus, brand new, $100.00. Super Polychoke, 16 gauge, new, $6.00. Lyman 48WJS, hunter knobs, new, $10.00. Rustless .30-'06-220 soft point, $3.50 box; same .30-'03, $2.50. Soft point .32-40, 10¢ each. Resized, primed Roberts cases, 7¢. Paul Boyce, Branford, Conn.

WANTED—SHOTGUN PRIMERS PETERS #4, Western #209, Remington #57, Winchester #4, Winchester #3W, U. S. #4. Black powder primers, any make. Want Krag empties and bullets, and Pacific dies with shell holders, any caliber. Must be excellent. W. S. Tanksley, Bristol, Virginia.

IVER JOHNSON CHAMPION .410, EXCELLENT, $9.00. Stevens 38A, 4 shot bolt action, .410, excellent, $15.00. Crescent Arms, 12 ga. single, good, $6.00. Will trade all for Winchester Model 42 or 10 boxes factory load 12 gauge BB, 2 or 4. Ray Augspurger, Winchester, Ind.

WANTED—PIGEON GRADE BROWNING OVER Under, excellent, ventilated rib. John Robertson, 470 Granville, Vancouver, B. C., Canada. 2-44

JAP SWORD, HARI KARI KNIFE MISSING, Ex. $10.00. Bronze cannon on carriage, large heavy 16" bbl. 16 gauge loading tool, $20.00. 15 nice figured walnut rifle blanks, $4.00 each. 20 with nice figure one side, $2.00 each. Can be used for shotguns. Wanted—Wood clarinet. Mauser actions. Case 12 gauge shells. Roy Vail, Warwick, N. Y.

41 COLT, GOOD, $35.00. 9MM LUGER, VERY good, $37.50. 22 Springfield Automatic, perfect, $27.50. Three .25-20's, very good, $30.00. Winchester .30-30, perfect, $60.00. Lovell, Converted Enfield, Sukalle barrel with components. This gun has everything, perfect. $95.00. 8mm Mauser Sporter, good, $30.00. .30-40 Krag Sporter, Pacific Sight, good, $35.00. Ranger Pump, 16, very good, $25.00. 1897 Winchester, 12, very good, $27.50. Western Field Pump, 12, good, $27.50. M12, 20, mechanically perfect, extras, $40.00. M11, 20, very good, $55.00. .25-36 Marlin, good, $20.00. .32 Winchester, fair, $20.00. Ammunition for all. List others for stamp. .38 Special handloads, $1.50. Yant, El Reno, Oklahoma.

WINCHESTER 70, .30-'06. RECOIL PAD, REDfield Jr., scope mount, sheepskin lined case. Above perfect fired for sighting only. Lyman Alaskan Scope $197.00. Match Target Woodsman $75.00. National Match .45 Colt Automatic, $75.00. Both excellent to very good. Ammunition available for above. J. B. Crawford, 5400 Carlton Way, Hollywood, Calif. Life Member.

BAUSCH AND LOMB N. R. A. SPOTTING SCOPE. 19X and 12X eyepieces, $60.00. J. B. Crawford, 5400 Carlton Way, Hollywood, Calif.

FOR SALE—250-3000 SAVAGE, EXCELLENT, checkered stock and fore-end, take down, 20 rounds hunting ammunition, $83.50. 30 Remington Model 14A pump, very good, 80 rounds hunting ammunition, $79.50. 348 Winchester Model 71, new, swivels and strap, $90.00. 218 Bee Winchester, new, Model 65, $67.50. 25-35 Sedgley Model 1898, Springfield, tapped for scope, strap and swivel, hooded ramp front sight, peep receiver, beautiful Birdseye Maple full length stock with cheek rest, 60 rounds hunting ammunition, perfect, $120.00. Winchester Model 1886, .45-70, 40 rounds hunting ammunition, new, $95.00. Send check or money order. Frank Efinger, Box 85, Boundbrook, N. J.

HENSOLDT BINOCULARS, 8 X 24, LIKE NEW optically, $79.50, Remington 30 Express, v.g., .35 caliber, Lyman 48 rear, $95.00. Remington 12 gauge auto, new stock, nearly new cyl. barrel, outside very good, $59.00. Winchester 401 Auto-Loader, very good in, 2 boxes, $79.00. Mossberg 22 L.R. heavy target stock, $16.50. Springfield 30-'06, new barrel, Lyman 48, issue stock, beauty, $65.00. Springfield mark 11, C stock, N. S. bolt, new barrel, over 1,000,000, very good inside, out, $89.50. 1 box 7.65mm Belgian Mauser, 300 Savage 150 gr. Remington, 33 Winchester, 200 gr. for what? Want 2 vol Howe Gunsmithing, Rifleman from 29 to 41. Trade or pay cash Winchester 70, 220 Swift, Stand or Spc. grade only, also 25 Colt Auto, perfect. H. C. Osborn, Box 1267, San Antonio, Texas.

WANTED—MODEL 720 REMINGTON .30-'06, Enfield as issued or ? Or Remington 30S, .30-'06. Also Model 720 Remington, Enfield or Remington 30S, .25 caliber 1-10 twist. Excellent condition. Also 25 caliber or 6.5mm and 30 caliber jacketed bullets. Also .300 Mag. cases. Also primers for 16 gauge shot shells, with or without battery cups. Cash paid. For personal use. State condition and particulars in first letter. W. Herb Smith, General Delivery, Riverside, Calif.

TRADE—22 L. R. LIST FOR LIST FOR primers. Sell 44 Spec. fact. Wadcutters, $2.00 box. Krag 150-180 gr., fine hunting reloads, $4.00 box. 30-'06 same, $2.50. F. Emerson, Box 54, Auburn, Mass.

WANTED—EXCELLENT TO PERFECT ORIGInal Buffalo Newton .256, also Ross Model 10M, 280. Give full details. H. W. Packard, 34 Brown Street, Waltham, Mass.

TRADE—S&W KIT GUN, NEW, HONED TRIGger. Want late Winchester 30 carbine, half magazine or what have you? Harold Loomis, Governeur, N. Y.

WANTED—M70, 257 TARGET GRADE, CASH, or trade any of following guns. Cash, excellent, Savage E. G., 300 caliber and 60 cartridges. Perfect, Camp Perry 8", Roper grips. Perfect, Woodsman 6½" Roper grips. Perfect, Woodsman 4½". J. W. Brown, 129 McCrea Avenue, Dennison, Ohio.

WANT—CARTRIDGES OR CASES FOR MANNlicher Austrian Army rifle model 95 cal. 8x50 rimmed. F. C. Moore, 2805 Pine, New Orleans, La.

44 REMINGTON PERCUSSION REVOLVER, new 8" barrel and 6 cavity mold, very good, $38.00. 1917, .45 caliber S&W, outside very good, inside excellent, with leather holster, $45.00. Knud Hansen, 86 Newark Avenue, Kenilworth, N. J.

TRADE—NEW MODEL 52 LYMAN #48 REAR, #17 Front, 500 shells for Belgium Browning 16 gauge ventilated rib skeet. Must be perfect. Will trade Colt 6½ Woodsman New with 500 shells for Winchester 218B. Must be perfect. With shells. D. L. Cox, Hope, Arkansas.

STEVENS WALNUT HILL, HEAVY BARREL, Lyman micrometer tang, scope blocks, sling, very good, $55.00. H&R Sportsman, single action, wool lined holster, very good, $35.00. R. C. Brown, 1222 Garfield Ave., Lynchburg, Va.

THANKS, FELLOWS, FOR YOUR NICE BUSIness during 1943. Keep it coming. Want to buy .257, .270 rifles 70 or 720. Keith Stegall, Box 1101, Pampa, Texas.

FOR SALE—38 SP. COLT HB, OMT, VERY good, smooth action, Pachmayr, Heiser holster, $55.00. 45 Colt Government, reblued, target rear, good, $45.00. 44 Remington C&B, reblued, new cylinder, good, $30.00. 2 French pinfires, working order, engraved, fair, $5.00 each. 1890 Winchester L.R. only, fair, $15.00. Model 12 Remington, S.L.L.R., good, $15.00. 3000, .22 BB caps Remington smokeless, $7.00 per M. 345 Indian Head pennies, various years and conditions, Lot $15.00. First M. O.'s buy. Frank Svec, 149 Oakdene Avenue, Leonia, N. J.

RIFLEMAN: YOUR EMPTY BRASS CASES ARE worth our top prices. Tell me how many .30-30, .32 Winchester Special and .351 cases in good condition you will sell and your price. Need battery cup shotgun primers. What will you trade for a Pacific scale with weights. Jim Clark, 2029 W. Fondulac, Milwaukee, Wisconsin.

ZEISS 6 X 30 SILVAREM, CASE, PERFECT, $88.00. Colmont Luminous 8 x 30, Lightweight, case, perfect, $52.50. Busch-Selsi, 44X, drawtube 75mm Spotting scope, perfect, $95.00. John J. Tobler, Union City, N. J.

SMITH & WESSON .22-32, EXCELLENT, WITH 1000, 22 L. R., $70.00. Harrington & Richardson 9-22, excellent, with 500 22 LR, $25.00. J. P. Unser, West Bend, Wisconsin.

FOR SALE — STEVENS O&U 410—22 LYMAN sight, new $25.00. Winchester 63, 23" barrel, Lyman sights, new $50.00. Lee-Enfield short rifle, .303 British service rifle, fair condition, $25.00. Squirrel rifle, .30 caliber muzzle loader. Accurate, mold. $20.00. Money order only. Geo. C. Shumaker, Box 672, Alamosa, Colo.

44 SMITH & WESSON SPECIAL, NEW, $45.00. Colt 1917, excellent in, $41.00. .45 Colt automatic, good, $41.00. .32-20 Colt positive special, almost perfect, $38.50. 45-70 Springfield, very good, $7.50. Kit S. Kapp, 6502 Salem Pike, Cincinnati, Ohio.

CHILLED SHOT, ALL SIZES. $100 PER #5 bag. Buckshot in sizes .25", .28", .30", .32", .34", .36", .38" and .44", $1.00 per 5# bag. DuPont powders No. 4198, 4227, 4064, 4320, 4350, Hivel No. 2, 2400 and Lightning, $1.60 lb. No. 4759, Unique, No. 6, Bullseye and DuPont bulk shotgun smokeless, $1.00 per ½lb. Send empty cans parcel post for all Hercules powders, No. 6 and 4759, which must be reweighed and repacked. Send copy of Federal explosives license. Leslie Lindahl, Central City, Nebraska.

SELL—K-22, EXCELLENT, $65.00. ACCEPT IN trade Winchester Model 12, 16 or 20 gauge with shells. Arnold Sanborn, Hamilton, N. Y.

WANTED—MODEL 70, .270 Winchester, excellent to perfect, with or without Lyman Alaskan or 2¾X Hensoldt-Ziel-Dialyt scope, side mounts. Henry Adolphi, 77-D McNeal, Bremerton, Washington.

44 COLT RUSSIAN, NEW SERVICE, HAS A slight bulge middle of 7½ inch barrel, otherwise fine, $30.00. Pair Allens, 32, .6 shot Pepperbox, perfect, $30.00 the pair. 32 caliber Pepperbox ribbed barrels, very fine, $20.00. 41 Remington double Derringer, very fine, $30.00. Root Colt 28 caliber number 2, very good, $25.00. 2 more Roots, nice guns, need repairs, one $18.00; one $14.00. Old Model Colt Pocket, needs repair, $12.00. 44 Colt Civil War $22.00, good. 7 shot 22 Derringer, a beauty, $25.00. 5 shot 32 Marlin, good, $10.00. S&W 1861 .32 caliber R.F., perfect, $20.00. Powder Horn $10.00. 12 gauge London Percussion shotgun, 31 inch barrels, by Hollis, fine, $35.00. U. S. Remington Roller breech, 50 caliber rifle with bayonets, good, $20.00. D. Nippes Flint musket with bayonets, $30.00, fine; another similar, no bayonet, $25.00. U. S. John Hall Percussion rifle by North, perfect, $25.00. U. S. Parkers B.L. Rifle, rare piece, fine, $25.00. U. S. Merrill B.L. Rifle, brass patch box used by sharpshooter, $25.00. Tower Confederate Musket, fine, $12.00. J. G. Dillin, Media, Pa.

FOR SALE TO FARMERS, RANCHERS AND Defense Plants only—Ithaca Model 37, 16 ga., new, (25 guns) $65.00 each. Savage Model 726, 3 shot, 16 ga., new, (10 guns) $90.00 each. Send affidavits with check or money order. Frank Efinger, Boundbrook, N. J.

FOR SALE—WINCHESTER MODEL 92 LEVER 38-40, mechanically good, appearance poor (4 guns) $28.50 each. 30-40 Krag, Model 1898, appearance fair, mechanically good, with 20 rounds of hunting ammunition (6 guns) $24.50 each. .32 caliber Orgies Automatic, good, $25.00. Winchester Model 65, 218 Bee, new, $67.50. Send check or money order to Frank Efinger, Main Street, Boundbrook, N. J.

ITHACA #3 TRAP VENTILATED RIB. S.S.T. 32 inch barrels, Monte Carlo Stock beavertail fore-end, F&M, Jostam recoil pad, $125.00, perfect. 2 Baker Single Trap guns, ventilated ribs, one straight grip with white line recoil pad; the other has pistol grip stock. Both have beavertail fore-ends, $75.00 each. Both guns are perfect. .405 Winchester Model 95 rifle, custom beavertail fore-end, recoil pad, perfect throughout. This gun is a beautiful piece & a smashing big game arm with 10 boxes cartridges, perfect condition, $100.00. 44½ Stevens, double set triggers, Pope #3 heavy barrel, 30", scope blocks. Custom Monte Carlo cheekpiece stock, with pistol grip, and large beavertail fore-end. Truly a deluxe target gun $105.00. 50-110 Express Winchester, 7 boxes cartridges, Custom Deluxe Stock with pad and checkered pistol grip, inlaid ebony. Detachable swivel eyes, fore-end finely checkered and inlaid with ivory diamonds on both sides, 26" round barrel & full magazine. Finely blued & a beautifully customized rifle. Perfect condition, $85.00. Eugene C. Craft, 1727 Sansom Street, Philadelphia, Pa.

TRADE .38 COLT OFFICIAL POLICE, 6" BARrel, excellent, with 400 shells. Want—Smith & Wesson Magnum, 7½" barrel or longer, excellent. C. W. Reyman, Cutbank, Mont.

WANTED—.280 ROSS CARTRIDGES. CARL Zimmerman, Miles City, Montana.

WANTED—44 S&W SPECIAL TARGET, EXCELlent, equipment, components, large pistol primers, back issues Rifleman, technical books. Lawrence Newton, Auburn, Mass.

WANTED—BROWNING OVER-UNDER LIGHTning, Single Trigger, describe fully. Dick Bell, Atlantic, Iowa.

WINCHESTER ENFIELD SPORTER, WEAVER scope, good to very good, $75.00. Mauser 7mm carbine, good, $35.00. 20 soft nose cartridges with each gun. E. W. Robbins, Milford, Mass.

FOR SALE—PARKER NO. 4 GRADE. TRAP. 12x32, full, ventilated rib, ivory sights, beautiful gun, excellent condition, $150.00. Send check or money order. Frank Efinger, Boundbrook, N. J.

WANTED—S&W, M1917, CALIBER .45 REvolver. Condition very good inside and out. Write, state prices. J. J. Egan, Jr. Gunner, U.S.N., F.A.D., Unit 1, N.A.S., Clinton, Okla.

SELL—"255" DEAN (IMPROVED 25-20) ON M92 action, heavy barrel, with or without scope, complete tools and components, full details letter. C. F. Hober, Belmont, N. Y.

38 OFFICIAL POLICE 4", KING FIXED SIGHTS, new condition, 100 rounds, $55.00. .45 ACP Commercial holster, 100 rounds, $60.00. Leroy Anderson, Bottineau, North Dakota.

WANTED—BAUSCH AND LOMB OR ARGUS spotting scope. Dale Frankforter, 43 S. Catalina, Pasadena 1, California.

WANTED—WILL PAY YOUR PRICE FOR THE following in perfect condition: Pacific reloading tool complete for .38 Special. Bullet mold, .38 caliber, Wadcutter, bullet mold, .25 caliber, gas check. For personal use only, 1,000 or less battery cup primers for 12, 16 or 20 gauge. Verne Williams, 2137 Franklin Ave., Toledo, Ohio.

TRADE—50 GR. SISK BULLETS FOR 87 GR., .25 Remington. H. L. Huber, Manhasset, N. Y.

FOR SALE—.22 CALIBER IVER JOHNSON, Model 833, target, new, (25 guns) $47.50 each. Russel Bird Shooter De Luxe 9 inch hunting shoe, sizes 7 to 12, including half sizes, new, $14.75 pair; send stamp 18 or Airplane 1. Five inch blade hunting knife, leather handle, with sheath, new, $4.50. 2700 White Flyer Targets, in cartons of 135, $18.50 F.O.B. Boundbrook. Western McCrea Master Target Trap, new, latest model, $59.50. Frank Efinger, Box 85, Boundbrook, N. J.

WINCHESTER 75 SPORTER, 29S, EXCELLENT, sheepskin case, Tri-Pak, 500 Hi-Speed, $70.00. 500 .22 Remington Autoloading; Hornet Handloads; 30 caliber gas check & metal cased bullets. Write for details, prices. Trade above for L.R., .218 Bee cartridges, or? A. French, 4603 Westminster, St. Louis 8, Mo.

SELL — SEDGLEY REBUILT SPRINGFIELD, new barrel, heat treated, fired 100 rounds, $60.00. Colt O.M.T., heavy barrel, barrel excellent, finish very good, $50.00. W. H. Osborne, 23 Damon Avenue, Melrose 76, Mass.

FOR SALE—SPRINGFIELD M1 22-3000 CHAMbered by Lovell custom stock, very accurate, scope blocks, components for 100 cartridges, very good, $100.00. Lyman Straightline Lovell, re-decapper, $5.00. 1½" Fecker Scope ¼ Min. clicks excellent, $90.00. Bausch & Lomb 55 mm. Spotting Scope and Stand, very good, $60.00. Trade: 250 caliber jacketed and lead bullets for 22 caliber 45 to 50 gr. Sisk or Watkins-Morse. Otto Kolb, 133-7th Ave., Pelham, N. Y.

BELGIAN BROWNING OVER-UNDER TRAP gun, excellent to perfect. Full and improved modified, beautiful Monte Carlo stock and beavertail forend. Stock dimensions, 1½"x1½"x14¼", with 1½" pitch. Complete with case and 100 shells, $175.00. Money orders only. Walter Scott, 39 Mitchell Ave., Poughkeepsie, N. Y.

REMINGTON MODEL 8 AUTOMATIC, 25 RIMless, excellent, 85 Kleanbore cartridges, $96.00. N.R.A. Springfield Star gauged barrel. Nickel bolt. Excellent. Bore perfect, 40 cartridges, $120.00. T. H. Turner, Seaford, Del.

WINCHESTER—MODEL 42 STANDARD .410 repeating shotgun. Chambered for 3 inch shells, full choke, recoil pad, canvas case, 1 box 3 inch, 7½ c. shells, $50.00. Excellent to new condition. Harry R. Sapp, 615 E. Piper St., Macomb, Ill.

WANTED—WINCHESTER 52 SPORTER, EXcellent, very good. Harry Ferris, Box 81, National Park, N. J.

FOR SALE: MATCHED PAIR, COLT'S OFFIcers' Model Target revolvers, excellent to perfect, .38 Special and .22 calibers, each has 6" heavy barrel, King hand honed actions, King front and rear ramp reflector adjustable sights, Roper grips, cleaning rods, 100 rounds 38, 150 rounds 22 ammunition, also Hartmann NRA carrying case, $175.00, first money order. Also D.W.M. Luger and holster, excellent, caliber 7.65, 3½" barrel, 150 rounds, $60.00. R. Lanning Ransom, 111 N. Thomas Ave., Kingston, Penna.

STEVENS .32-40, 44½ action good, barrel poor, $25.00. Winchester Model 52 regular barrel, Lyman extension rear, Redfield front. 500 Kleanbore, excellent, $85.00. L. C. Smith 12 gauge, trap grade, 3" chambers, auto ejectors, 30" barrels, both full, double triggers and 225 shells, $140.00. C. W. Reyman, Cutbank, Mont.

SELL—COLT 45 D. A. 5½ BLUE, VERY GOOD, with Ideal tool, mould, 500 F. A. smokeless loads, 450 handloads, $75.00. 1917 Smith and Wesson, good with 288 cartridges in clips, $50.00. Mauser Military 7.63mm pistol, perfect, 53 loads, $60.00. Remington double Derringer, nickel, good, 50 loads, $15.00. Ammunition: 100, .30-40 Govt., some split necks, $3.00; 65, .30-'06 Govt. 1918, $2.50; 190, 45 automatic 1918 issue, $6.00; 68 Colt 45 Kleanbore, $3.50; 145 Colt 45 smokeless, $6.00; 700, .22 long rifle fresh, $7.00; 66 S&W 38 shot loads, $1.50; 31, 9mm Luger Pistol, $1.00; 32, .32 automatic pistol, $1.00; 970 Rim fire .38 short, $10.00; 400 Rim fire long .38, $5.00; 185, .38 S&W Special mixed brands smokeless, $6.00. 212 bullets only .30-06, 150 grains, $2.00. Several knives and daggers suitable for Commando use. Write for details. George Dudycha, 931 Watson, Ripon, Wisconsin.

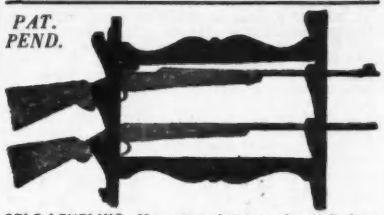
WE CAN MAKE IMMEDIATE DELIVERY Stith Install-It-Yourself mounts with Weaver 330 Crosshair scopes, for use with Winchester M70 or Savage M99 rifles, price $41.70. For Weaver 440 scope, add $5.50. For Lee Floating Dot, add $6.00. M. L. & M. J. Stith, 304 Milam Bldg., San Antonio, Texas.

SAVAGE 12 GAUGE O&U 28" IC&M PAD. BORE excellent, $40.00. Another 26" cyl and mod. bore, excellent, $40.00. Savage 19NRA, Weaver 329, excellent, $30.00. Want—Hi-power rifles, .22 rifles, shotguns, shells. F. C. Culler, Alliance, Ohio.

HI-STANDARD MODEL H-B, 200 CARTRIDGES, perfect, $48.50. 199, .22 automatic cartridges, $3.00. Want—Mattern's "Handloading Ammunition" 12 gauge wadcutter. George Barkman, 405 Main, Laurel, Maryland.

THE "PEQUOT" GUN RACK

PAT. PEND.



SELF-LEVELING—No matter what type of gun. It drops into natural, horizontal position. Made of solid mahogany, hand-rubbed walnut finish. Exceptionally attractive. Just the thing for your den, living room, hall or foyer.
4-Gun—$5.95 5-Gun—$6.95 6-Gun—$7.95—prepaid. Check, Money Order or C. O. D. Money back guarantee.
GEORGE MARNHOUT CO., MFR'S
Dept. A, 1701 Arch St. Philadelphia 3, Pa.

RUST-FREE GUNS
WITHOUT SCRUBBING AWAY ACCURACY!
Always RIG your rifles, pistols and shot guns inside and out after shooting. RIG eliminates immediate cleaning. Really stops rust. The greatest thing in gun protection! For daily use and storage. Tubes 25c—60c. At gun dealers, or write!
Complete protection even in moist, tropical climates and salt sea air. RIG stops rust when others fail. Used and approved by world's leading gun experts. Also protects tools, fishing tackle, or anything that rusts. Write for FREE FOLDER!
Rust Inhibiting Products
5936-R Stony Island
Chicago 37, Ill.
RIG

CASH FOR FIREARMS
We buy, sell and exchange all types of good used firearms, photographic equipment and binoculars. Just ship us what you have. We'll quote our best offer by return mail. If not satisfied we'll return merchandise.
M & H SPORTING GOODS CO.
Established 1872
512 Market St. Philadelphia, Pa.

REBLUING PLATING
CHECKING—REFINISHING—REPAIRING
NICKEL GUNS BLUED
GUN REBLU CO.
322 F Plant Ave. Tampa, Fla.

FOR SALE—PRIMERS, 200 WIN. 5, 100 NO. 5½, 1000 No. 2½ all for $12.00. 900 cases, 38 Sp., very good, all $9.00. 303 British, Remington 1942 cartridges at $3.00 box. Want 22 caliber bullets, 348 scope or equivalent, 10 gauge Magnum, 7mm rifle, 8mm ammunition will trade for 22 L. R. T. Gies, Hastings, Michigan.

WINCHESTER 52 SPORTER, 48 LYMAN, SLING, 438 Lyman Field scope, 2 clips, 1000 cartridges, excellent, $150.00. Woodsman 4¼", excellent, holster, hand made target grips, 450 cartridges, two clips, $75.00. 8 x 30 Zeiss binoculars, case, excellent, $140.00. S&W Regulation Police 4½", 38, 50 cartridges, excellent, $45.00. Benjamin Air Pistol, 400 pellets, excellent, $12.00. Winchester 54 Hornet, 48 Lyman, 438 Lyman scope, Sedgely scope rib, sling, excellent, $115.00. Ray Ban Shooting glasses, gold frame, sweat bar, $25.00. 500 new 38 special cartridges, non corrosive, excellent, $40.00. 20 round 22 High power, excellent, $4.00. Pete Wills, 1842 Primrose Avenue, Nashville 4, Tennessee.

ITHACA 12 GAUGE TRAP EXCELLENT, $85.00. Winchester 52 Standard barrel new, 17A front Marble Goss extension, rear, merit disc, sling, 2 extra clips, beautiful trunk case. Will submit bill $104.20; take $95.00. 300 shells, $2.00. Want good Over and Under, also model 12 trap. D. D. Green, 100 S. Carol Blvd., Upper Darby, Pa.

WANTED FOR CASH, ANY AMOUNT .22 CALIber rimfire ammunition. Will buy any kind of .22 caliber R. F. rifles or pistols with a good supply of ammunition for each. No trades, cash only. Prices must be within reason. Want one more Mauser Antitank rifle. Life member. Capt. Howard J. Knutson, P. O. Box 1313, El Centro, California.

WANTED—FIRED .22 SHORT OR LONG CASES. Must be copper cases. Will pay 25¢ a pound. Also want .25 caliber rim fire cases. Claude Graves, 632 North Linwood, Indianapolis, Indiana.

300 SAVAGE CASES MADE FROM YOUR .30-'06 cases, five cents each. Want .30 caliber gas checks. Earl Armstrong, Lewistown, Montana.

FOR SALE—WEAVER SCOPES, 330 SX, T Mount, new, $37.50. 440 SX, T Mount, new, $42.50. 32 Remington Model 14, pump, 100 rounds hunting ammunition, $84.50. .22 caliber Winchester Model 61, pump, smooth bore, new, with 100 rounds of ammunition, $37.50. 20 ga. Ithaca, Automatic and burglar gun with leather holster, excellent condition, $45.00. Savage .22 caliber Hi-power Model 1899, fair, lever action, $37.50. Winchester Model 65, 32 WCF. (32-20) new, with 50 rounds hunting ammunition, $59.50. Send check or money order. Frank Efinger, Box 85, Boundbrook, N. J.

FOR SALE—GORDON SETTER PUPS. FROM real hunting bitch and Sire. Finest for typ, conformation and those who want finest bird dogs. Registered. Whelped Nov. 14, 1943. $50.00 and $75.00. W. Herb Smith, Gen. Del., Riverside, Calif.

STILL PLENTY LEFT, NEW PRIMED CASES (not loaded cartridges), Peters Rustless and Remington Kleanbore .25-20 Repeater, .32-20, or .44-40, $3.75 per hundred. Robert Haelig, Boundbrook, N. J.

BULLETS ONLY (NOT LOADED CARTRIDGES). 7mm 175 grain soft point, $9.00 per 300, $25.00 per 900. .44-40 (44 W.C.F.), 160 grain hollow point (hollow base), $6.75 per 200. .38 Special, 158 grain Metal Patch, Lead Bearing, $2.50 per hundred, $22.50 per thousand. .38-55, 255 grain, soft point, $3.75 per hundred. All above are Remington or Peters, fresh stock, jacketed bullets. 12 gauge Winchester rifled slugs only (not loaded shells), $2.50 per box of 25. Add postage for parcel post shipments. Robert Haelig, Boundbrook, N. J.

WE BUY, EXCHANGE AND SELL ALL TYPES of Binoculars. Alden Loring, Owego, N. Y. tf

TRADE—.22 CARTRIDGES FOR 12 AND 20 gauge shells. Herbert Sandusky, 2832 Downing St., Jackson, Miss.

WANTED—WINCHESTER 16 GAUGE RIB FULL choke: new or excellent, also all shells with gun. H. D. McEldowney, Enumclaw, Wash.

FOR SALE—CHILLED SHOT, SIZES 1 TO 10 inclusive, 5 lb. bag $1.00; 25 lb. bag $4.50; shotgun cartridge wads, 10 ga. ¼" $4.30 M; ⅜" $7.10 M; 12, 16 & 20 gauges ¼" $3.65 M; ⅜" $6.60 M; over-powder and over-shot cardboard wads, 10 ga. $1.25 M; 12, 16 & 20 gauges $1.20 M; Du-Pont Bulk Shotgun Powder, 8 oz. canister, $1.00; Fairbanks No. 3054 scales $21.50 each; cal. 44-40, 160 gr. OP bullets only $2.98 C. Belding & Mull, Philipsburg, Penna.

SPORT MODEL 52 WINCHESTER SLOW LOCK, 5X scope, Myrtle Wood Stock, perfect condition, $100.00. Model 30-03 Springfield, 1923 issue, 48 Lyman, new condition, $75.00. Colts Bisley Model 38-40, good as new. $50.00. W. A. Hendry, 1007 Vine St., Waterloo, Iowa.

WINCHESTER HI-SIDE 22 HIGH POWER MAGnum, Winchester #3 barrel round 28" no sights, has scope blocks, single set trigger Bishop target stock and forearm, loads and components. Ithaca 12 double 26" barrels single selective trigger, double ivory sights, recoil pad. Winchester 92-32 WCF. with new barrel and ammunition, Winchester 92-218 Bee target barrel, Bishop target stock with pistol grip and high comb and check piece with components. All above very good to perfect. Springfield 06 sporter, ramp front, receiver rear sight with ammunition and .30 caliber bullets. 1000 rounds of 32 Colt center fire ammunition 30 caliber jacketed bullets to trade for your articles. Winchester 75 target rifle as new. Excellent. Hopkins and Allen 22 target rifle heavy 28" octagon barrel beautiful checkered stock and forearm perfect. I need Marksman stock for model 70 standard barrel Remington Navy Pistol original or converted. Colt 38 Super Automatic. Want—Winchester 70 Swift standard or 270 standard. All trades considered and all letters answered. W. C. Barnhart, Box 74, New Carlisle, Ohio.

SPRINGFIELD .30-'06 SPORTER, 48, $105.00. Springfield .30-'06 Sporter, 48, $125.00. Winchester .30-30 Carbine, factory grease, $65.00. Winchester 1895, .30-40, $55.00. Winchester Musket, 22 long rifle, 103, 17-A, $35.00. Winchester single .32-20, good, $25.00. Winchester Pump, 12-20, full, solid rib, $75.00. Parker D. H., .12-28, M-F, $130.00. Outdoorsman never fired, $85.00. S&W .38 Special target, near new, $65.00. 45 Commercial, near new, $75.00. 45, very good, $65.00. 45 inside rough, $45.00. Sell cartridges with guns. Arthur B. Colwell, 48 Wendell Street, Providence, R. I.

8MM MAUSER CUSTOM LOADED CARtridges (new component used, not reloads), noncorrosive, non-fouling, 236 grain soft point only. $20.00 per hundred. Robert Haelig, Boundbrook. N. J.

FOR SALE—TWO NICKEL PLATED STAGE coach pistols, very good, both for $45.00. Send check or money order. Frank Efinger, 423 Main St., Boundbrook, N. J.

WANTED—MODEL 70, .30-'06, EXCELLENT. Will pay $95.00 for 65mm B. & L. spotter. Kail H. Sunderman, Buffalo Center, Iowa.

COLT MATCH WOODSMAN. EXCELLENT IN, out. First $60.00 money order. E. A. Saliers, University, Louisiana.

HERCULES AND DU PONT POWDERS, ONLY those listed available at present. Hercules Lightning, 2400, Hi-Vel #2, Du Pont 4198, 4320, 4350, 4227, 4064, $1.75 per pound. Hercules Bullseye, Unique, $1.75 per twelve ounce canister. Du Pont 4759, Pistol #6 (also very limited supply Pistol #5), $1.10 per sealed eight ounce canister. Du Pont #80, $4.00 per pound. All Hercules and some Du Pont powders reweighed from drums. Federal Explosives License must accompany order. Send check or money order. Twenty-five cents packing charge on orders under $5.00. Robert Haelig, Boundbrook, N. J.

WINCHESTER 70 RIFLES, NEVER FIRED, target grade, Lyman 48 and 77, sling, with 100 fresh factory cartridges, one each in .220 Swift and .270 Winchester, $165.00 each. Bull Gun, .30-'06, Lyman 48, 77, sling, 200 F. A. 1938 National Match cartridges (or Western 180 grain Silvertips if you prefer them), $190.00. Super grade 300 H&H, Lyman 48, Q.D. Sling. Lyman Alaskan (not all weather) G&H mount, 100 Super Speed, 180 grain Silvertip cartridges, $255.00. Robert Haelig, Boundbrook, N. J.

WANTED—REMINGTON-LEE RIFLE AS ISsued. Bolt for Lee Straight-Pull rifle. C. T. Lavallee, 40 Florida, Springfield, 9, Massachusetts.

NEW MOSSBERG SPOTTING SCOPE AND stand, $40.00. WANTED—Micrometer powder measure, 9mm Luger cartridges or components; pay cash or will trade: .30 caliber Mauser, .270, .30-'06, .22, .250-3000, or 7mm cartridges, rifle primers, powder, or other items advertised in this issue. Louis Lutfy, 903 Professional Building, Phoenix, Arizona.

WANTED—FRONTIER AND MODERN COLTS and Smith & Wesson revolvers. For sale: Colt P.P. .38 and Smith & Wesson .32-20 Swing cylinder pocket gun. Winchester 12, 12 and Remington 12 Automatic. B. W. Wilder, 4511 Browndale Ave., Minneapolis 10, Minnesota.

COLT OFFICIAL POLICE .22 LONG RIFLE, perfect inside, bluing worn outside, carton Xpert, good hip holster with gun, $40.00. Donald Weide, Lancaster Wisconsin.

FOR SALE: EXCELLENT TO PERFECT, REMington Sportsman 20 gauge, 26" barrel, improved cylinder and 45 shells. Fired 30 times. Price $65.00. Wallace Patch, Box 221, Lebanon, N. H.

SELL: REMINGTON SPORTSMAN, SIXTEEN, ribbed barrel, Weaver choke, leather case, excellent, $95.00. Few primers, bullets. Howard Warden, Beach City, Ohio.

WANTED—.38 O. M. OR POLICE REVOLVER, 357, .38 Special, .44 Special or .45 Shooting Master or NST, short Woodsman, 1,000 .22 L.R. B. A. Fleming, USNAAS, Forks, Washington

NATIONAL MATCH SPRINGFIELD, GOOD condition, with 500 rounds 1918 selected ammunition; no split necks, $85.00. Robert Wilmarth, 243 White Street, Belmont, Massachusetts.

WANTED—IDEAL FULL LENGTH DIES; .250-3000, .25, .30, .32 and .35 Remington, .38-55; also .25 and .30 caliber jacketed bullets; rifle and pistol primers. For Sale: 4 in. .30 caliber Luger, good, $40.00. James Havel, Thief River Falls, Minnesota.

SALE OR TRADE—CUSTOM .300 H. & H. MAGnum, Mauser action, Turner mount; also Redfield rear and ramp front sight. Excellent. 260 Silvertip cartridges. Write for details. $275.00. WANTED—Custom .270 Sporter. E. E. Hohman, Wausau, Wisconsin.

SELL OR TRADE—COLT O.M.T. .22, V.G., $65.00. S. & W. Detective Special, holster, excellent, $70.00. Winchester model 12, 16, rib, Polychoke, excellent, $70.00. 1½ N.M.N.C. primers. WANT—W97 Trap 12 or 16, .357 S. & W. Magnum, .45 Auto. Almon Williams, Berea, Ohio.

WANTED—LYMAN ALASKAN; SPOTTING scope; 8X or 10X target scope; state price wanted. J. A. Dunn, 4054 Vinceton Street, Pittsburgh, Penna.

FOR SALE: 6.5MM MANNLICHER-SCHOEnauer rifle, model 1903, excellent; 3 boxes cartridges, $150.00. .348 Winchester, deluxe model 70, excellent, 4 boxes cartridges, $100.00. Member. K. P. Bankert, Littlestown, Pennsylvania.

WANTED—WALTHER'S PP OR PPK, COLT Ace, Steven's "Off-Hand," .380 ammunition. Give price and description. S/Sgt. A. J. Wood, 638th T.S.S., Boca Raton, Florida.

1000 NO. 116'S, 1000 NO. 120'S, 6 POUNDS 4198, 4 pounds 4227, 2 cans Bullseye. No split. $40.00. Lt. A. M. Learned, Naval Air Station, Ottumwa, Iowa.

WANTED—WINCHESTER MODEL 70, CALIBER .270. New or in perfect condition. Will buy .270 and .30-30 shells. Ship C.O.D. with examination privileges. Dave Spink, c/o The Toggery, 1355 Sheridan Avenue, Cody, Wyoming.

WANTED—.270 HUNTING RIFLE IRON OR scope; Pacific loading tool, any or no dies; lubricator .38 Special dies. H. W. Abbott, 430 Chestnut St., St. Marys, Penna.

WANTED—SAVAGE 99 RIFLE, CARBINE OR 20 inch barrel, .303 or .250 caliber only. Reasonable price. Dr. Meagher, 229 Carrington St., Waupun, Wis.

N. R. A. SPRINGFIELD SPORTER, STAR gauged, 48 Lyman rear, gold front, box silver tip 180 grain, 50 other cartridges. Very good. No. 1,317,156. $65.00. Dr. A. H. Singleton, Mannington, W. Va.

SAVAGE .30-30, 20 GAUGE, $30.00. 92, .32-20, $35.00. .22 Manhattan, Cooper conversion, $50.00. .22 SAA, $50.00. Want—.224 barrel; graded 20 or 12; Remington SS .22 V.P.; RIFLEMAN before 1932. R. E. Rhines, 310 Eleventh Street, Franklin, Pennsylvania.

FOR SALE—300 EG UNFIRED SAVAGE, 40 shells, canvas case, $80.00. .30-'06 Remington 30-S, perfect strap, 200 government and 100 sporting ammunition, $125.00. 20 Gauge Fox Sterlingworth Beavertail forearm, SST, straight grip fancy walnut, perfect 100 shells and canvas case, new this year, $115.00. Have rifle ammunition in small quantities in Hornets, Swifts, Krag, etc. at ceiling prices plus crating charges. Need shotgun shells. Stamp please, certified checks only. Life member. Russell H. Morrison, 1447 East 66th Place, Chicago, Illinois.

.357 SMITH, 6 INCH, KING SIGHTS, 38 MAGnums, 125 .38 Specials, holster, belt, all very good to excellent, $130.00. Nickled .38 Specials fired once $1.00 per 100. Robert Lowe, 1402 N. Kedzie, Chicago, Illinois.

FOR SALE—COLT OFFICERS .38, 6 INCH BOX shells, $65.00. Malcomb No. 1, scope post 4 power, $20.00. Winchester 95, 35 and 75 softpoints, $75.00. S. & W. K 22 Sanderson grips, $75.00. Want—63 Winchester Automatic Deluxe 20 in. barrel, factory new, all F.O.B., first money order. Jesse G. Ball, Box 88, Russell, Kansas.

AS ISSUED—.30-'06 MEXICAN MAUSER; Lebel; .35 Winchester; war relics; swords; helmets; Zeiss binoculars; 10X Busch; others; Zeiss lens camera; Rolliflex; periscope; German Army field glasses; stamp brings list. Kingdon Walker Brown, 884 Second Avenue, New York City.

FOR SALE—SEARS MARLIN, MODEL 90, 16 gauge O.U., 28 inch F.M., box shells, $45.00. Factory new, Oberndorf Mauser pocket pistol, caliber 7.65, fair condition, $14.00. Savage 23 A barrel marred at rear sight, otherwise perfect, $7.00. Hi-Standard, Model B, 6¾ barrel, 500 .22 L.R. cartridges, factory new, $55.00. Three boxes .300 Savage, new stock, S.P., $3.00 per box, check or money order. R. Allgaier, 600 Lincoln St., Hazleton, Pa.

ONE 380 COLT AUTOMATIC, EQUIPPED WITH 7 inch .32 target barrel, perfect in and good out, $34.00. French Deluxe Regatta binoculars, 7 x 35, new, $50.00. One single and one double blue flame coal oil burners, complete, new, never unpacked, trade for .22 Colt, Woodsman or Hornet Rifle, land surveyor's transet and Tri-pod for .30 caliber Remington Automatic. S. H. Wilson, Star Route, Bernalillie, N. M.

TRADE—500 .45 COLT REVOLVER CARtridges, new in factory boxes, Winchester make for .30-'06 Enfield Sporter in excellent or better condition. Send description in first letter. Ernest M. Morgan, Route 2, Box 87C, Morganton, N. C.

THIS IS TO ADVISE OUR CUSTOMERS, OR others, who desire fine custom-made shotguns that we have disposed of our stock of Webley & Scott assemblies to Lt. Roy Vail of Warwick, New York, who will take care of your needs. Hoffman Arms Company, Amarillo, Texas.

SEND 12¢ FOR COPY ILLUSTRATED LIST antique revolvers, pistols, several rarities and several with authenticated histories. Will pay cash, trade for Colt, other percussion revolvers, pistols. McMurdo Silver, Plainville, Connecticut.

WINCHESTER 52 H.B., LATEST MODEL, FACtory grease, $77.50 f.o.b. Lyman 48 and 17-A, $15.00. Want—Good Hornet outfit. M. J. Lowen, 260 Sedgwick Avenue, Yonkers, N. Y.

COLT COMMERCIAL .45 AUTOMATIC, $75.00 or trade for Browning 12 full choke automatic. Winchester .22 WRF model 90 pump with 250 cartridges, $50.00. Lyman 422 scope with mounts, $25.00. A. G. Busch, 148 North Bemiston Avenue, Clayton, Missouri.

FOR SALE—WALES ADDING MACHINE 9 column desk model in working order, $49.50 or will accept 2 Colt .45 Automatics in working condition for it. G. D. Griffin, 203 Elm Street, Ithaca, New York.

IVER JOHNSON MODEL 1900 REVOLVERS, caliber .22 long rifle, new, with 100 long rifle cartridges, $16.50. Robert Haelig, Boundbrook, N. J.

WEAVER 1X SCOPE, R MOUNT, VERY GOOD, $30.00. 1 Sun Beam shave master, very good, $10.00. 1 High Speed Rand shaver, very good, $10.00. B. H. Smith, Severn, Maryland.

WINCHESTER 69A WITH SMALL LYMAN scope (not mounted), very good, $28.00. ½ in. U. S. drill, $30.00. Delbert Wells, Salem, Indiana.

1 OFFICERS' MODEL 6 INCH BARREL 22 Roper sights, honed action, walnut stocks, sheep lined case, perfect, $95.00. 1 Colt Officers' Model 38, 6 inch heavy barrel patridge sights, honed action, walnut stocks, in factory box, sheep lined case, excellent, $75.00. 1 Smith & Wesson .38-44, 5 inch barrel, perfect, $70.00. 1 Colt Army Special, 5 inch barrel, excellent, $60.00. Sam L. Solomon, 208 North Wells Street, Chicago, Illinois.

TRADE—LYMAN 10X TARGETSCOPE, MIcrometer mounts, dust caps, excellent, case 12 ga. 7½—2¾ in—3¼ drs. never opened. FOR—Win 70, 220 Swift, Standard or Special grade, with ammo, must be very good (no target model) take or pay cash difference. H. C. Osborn, Box 1267, San Antonio, Texas.

These families are sportsmen's responsibilities

If it were not for the splendid work of national, state, and local wildlife restoration agencies, certain species of game would almost surely be extinct today.

But wildlife restoration must be continued *steadily* if the American heritage of good hunting is to survive. Game is a *crop* — and must be tended as such — every year.

Since there are so many sportsmen now in the armed forces we urge sportsmen at home to do even more than their peacetime share in the restoration program. E. I. du Pont de Nemours & Co. (Inc.), Wilmington, Del.

DU PONT

REG. U. S. PAT. OFF.

EXPLOSIVES & SPORTING POWDERS

PRESS OF JUDD & DETWEILER, INC., WASHINGTON, D. C.

It Takes a Heap of Shootin' To Make An Ace

In Peace as in War, America Relies On Western

When quail burst from cover with a startling whir-r of wings, thoughts turn to yesterday's wonderful hunts. You recall days when the dogs were working like champions, and it seemed you *couldn't* miss.

No one knows how soon those times will come again. But when they do, you will be able to hunt quail and other upland game with Western Xpert shells in your gun. They will provide plenty of "reach" and a satisfying walloping impact.

It isn't easy to train every reflex of the eye, brain and trigger-finger to split-second coordination . . . to blast the enemy streaking in at 400 miles an hour. Cracking down on fast-flying targets wasn't new to lots of our aerial gunners. They'd spent many a great day, bird-shooting or bustin' "clay" targets. Now, clay target shooting, using shot shells, is part of every aerial gunner's training.

Western is proud to have a part in their training and fighting. Now, as in two previous wars, Western has converted its production to military ammunition. In addition to supplying millions of shot shells, many *billions* of cartridges have been manufactured in Western-operated plants.

Yes, it takes a heap of shootin' to make an Ace . . . and mountains of ammunition to win a war. Western Cartridge Company, East Alton, Ill.

Western

WORLD CHAMPION AMMUNITION

SHOT SHELLS . . CARTRIDGES . . TRAPS AND TARGETS

LM324

AMERICAN RIFLEMAN

AMERICAN RIFLEMAN